

Report No. FAA-RD-78-58, IV



TIME DEGRADATION FACTORS
FOR TURBINE ENGINE EXHAUST EMISSIONS

VOLUME IV JT3D-7 TEST DATA



MAY 1978



INTERIM REPORT

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1. INTRODUCTION

This is the fourth volume of an eight-volume report concerning the degradation of turbine engine emissions. This volume contains test data obtained for the JT3D-7 engine type as installed on the DC-8-62 aircraft. The engines, owned and operated by UAL, were tested in San Francisco by UAL personnel.

The other volumes of the report are listed below:

Volume I - Program Description and Results

Volume II - JT8D-9 Test Data

Volume III - JT8D-7 Test Data

Volume V - JT3D-3B Test Data

Volume VI - JT9D-3A Test Data

Volume VII - RB211-22B Test Data

Volume VIII - CF700-2D Test Data

Regarding the test data, it should be noted the EPA test specifications were not followed where they conflicted with the interests of degradation testing. Hence, comparison of <u>acsolute</u> emission levels presented in this report with EPA standards may be misleading.

1.1 CONTENT OF VOLUME

There are four sections that make up the volume: Engine Test and Maintenance Chronology; Nomenclature; Emissions and Analysis Data; and Fuel Analysis Data.

The Engine Test and Maintenance Chronology section contains a chronological, unit-by-unit, listing of noteworthy events occurring to a particular engine in the course of the program. This includes test dates, dates and descriptions of maintenance, and the dates of installations onto other aircraft that may have occurred. If an engine was removed from the program, the date and reason are also included.

The Nomenclature section contains a listing and description of all the titles and column headings used in the two succeeding sections.

This includes al! equations used in the various calculations.

The Emissions and Analysis Data section includes all data gathered during a test, plus the results of any calculations performed on that data.

It consists of a number of tables arranged according to test series. For the JT3D-7 engine there were six such series; Baseline; 600 Hour; 1200 Hour; 1800 Hour; 2400 Hour; and 3000 Hour. The hour designations represent the nominal value of time since baseline (TSB) for each engine tested. The actual values of TSB are scattered about the nominal values. Within each test series, the data is further subdivided into a table of data pertinent to an entire test for an engine and a series of seven tables for each of the eight modes tested. Thus there are a total of 57 tables for each test series. In addition, the section begins with a set of notes documenting the data.

The Fuel Analysis Data section contains a unit-by-unit listing of the results of analyses performed on samples of jet fuel used during the emission tests. During each engine test, a sample of fuel was taken from the same fuel tank as used during the test and subsequently analyzed. The results of the analyses include API gravity, hydrogen-carbon ratio and the percentages of paraffins, olefins and aromatics.

2. ENGINE TEST AND MAINTENANCE CHRONOLOGY

Unit No./ Serial No.	Date	ftem
1/671292		Original Test A/C No. 2266, Position No. 1
	8/18/75	Baseline Emission Test
	11/4/75	"600-Hour" Emission Test
	1/4/76	Trimmed engine 35 clicks counterclockwise
	1/28/76	"1200-Hour" Emission Test
	2/25/76	Engine removed due to burner can shift
2/671220		Original Test A/C No. 2266, Position No. 2
	8/21/75	Baseline Emission Test .
	11/4/75	"600-Hour" Emission Test
	1/4/76	Trimmed engine 18 clicks counterclockwise
	2/3/76	"1200-Hour" Emission Test
	5/18/76	"1800-Hour" Emission Test
	8/17/76	''2400-Hour'' Emission Test
•	8/25/76	Retrimmed engine
	11/3/76	"3000-Hour" Emission Test
3/671228		Original Test A/C No. 2266, Position No. 3
	8/21/75	Baseline Emission Test
	11/4/75	"600-Hour" Emission Test
	1/26/76	High bleed value open, replaced valve
	2/3/76	"1200-Hour" Emission Test
	5/18/76	Engine removed due to metal in oil system
4/671142		Original Test A/C No. 2266, Position No. 4
	8/21/75	Baseline Emission Test
	11/4/75	"600-Hour" Emission Test
	12/29/75	Pneumatic bleed valve will not switch from 'Auto' to 'HI', replaced valve

3

Unit No./ Serial No.	Date	l tem .
4/671142	1/4/76	Trimmed engine 35 clicks counterclockwise
Continued	1/29/76	EPR low - replaced PT7 line
	2/3/76	"1200-Hour" Emission Test
	5/18/76	"1800-Hour" Emission Test
	8/24/76	Retrimmed engine
	8/17/76	"2400-Hour" Emission Test
	11/3/76	13000-Hour! Emission Test
5/671325		Original Test A/C No. 2270, Position No. 1
	8/19/75	Baseline Emission Test
	8/30/75	Accomplished FCU trim
	9/30/75	Penumatic system inoperative in 'Auto' replaced switch
	11/5/75	"600-Hour" Emission Test
	2/27/76	"1200-Hour" Emission Test
	5/26/76	"1800-Hour" Emission Test
	8/19/76	'2400-Hour' Emission Test
	10/16/76	FCU replaced
	10/21/76	"3000-Hour" Emission Test
6/671143		Original Test A/C No. 2270, Position No. 2
	8/19/75	Baseline Emission Test
	8/24/75	Engine removed due to foreign object damage, and reinstalled on the same aircraft and position
	8/30/75	Accomplished FCU trim
	9/12/75	Adjust fuel control
	11/5/75	"600-Hour" Emission Test
	12/16/75	Engine removed due to high oil consumption
7/671268		Original Test A/C No. 2270, Position No. 3
	8/19/75	Baseline Emission Test
	8/30/75	Accomplished FCU trim

Unit No./ Serial No.	Date	l tèm
7/67/268	11/5/75	"600-Hour" Emission Test
Continued	2/27/76	"1200-Hour" Emission Test
	5/26/76	"1800-Hour" Emission Test
	8/19/76	'2400-Hour' Emission Test
		C-2 disk limit, removed from program
8/671306		Original Test A/C No. 2270, Position No. 4
	8/25/75	Baseline Emission Test
	8/30/75	Accomplished FCU trim
	11/5/75	"600-Hour" Emission Test
	2/27/76	"1200-Hour" Emission Test
	3/10/76	FCU replaced
	5/26/76	"1800-Hour" Emission Test
	8/19/76	12400-Hour" Emission Test
	10/21/76	''3000-Hour'' Emission Test
9/671315		Original Test A/C No. 2267, Position No. 1
	8/22/75	Daseline Emission Test
	9/16/76	Engine removed due to oil leak
10/671171		Original Test A/C No. 2267, Position No. 2
	8/22/75	Baseline Emission Test
	9/29/75	Engine removed due to burner can shift
11/671203		Original Test A/C No. 2267, Position No. 3
11/0/1203	8/22/75	Baseline Emission Test
	11/17/75	"600-Hour" Emission Test
	1/1/76	Trimmed engine 59 clicks clockwise
	2/17/76	"1200-Hour" Emission Test
	5/19/76	"1800-Hour" Emission Test
	6/1/76	Jet air bleed open
	8/10/76	''2400-Hour'' Emission Test
	0/10//0	2700-1001 Emission lest

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Unit No./ Serial No.	Date	Item
11/671203	9/19/76	Trimmed engine
Continued	10/19/76	"3000-Hour" Emission Test
12/671214		Original Test A/C No. 2267, Position No. 4
	8/26/75	Baseline Emission Test
	11/17/75	"600-Hour" Emission Test
	2/17/76	"1200-Hour" Emission Test
	3/4/76	Engine removed from program due to oil can shift
13/671227	1	Original Test A/C No. 2268, Position No. 1
	8/28/75	Baseline Emission Test
	11/11/75	"6:9-Hour" Emission Test
	12/31/75	Rerigged to part power
	2/23/76	"1200-Hour" Emission Test
	3/1/76	Engine retrimmed
	5/25/76	"1800-Hour" Emission Test
	8/3/76	'2400-Hour' Emission Test
	8/19/76	Engine removed due to C-2 disk limit
	- 9/16/76	Engine reinstalled on A/C No. 2266, Position No.
	11/3/76	"3000-Hour" Emission Test
14/671197		Original Test A/C No. 2268, Position No. 2
	8/28/75	Baseline Emission Test
*	11/18/75	"600-Hour" Emission Test
	12/31/75	Rerigged to part power
	2/23/76	"1200-Hour" Emission Test
	3/1/76	Engine retrimmed
	5/25/76	"1800-Hour" Emission Test
	8/3/76	"2400-Hour" Emission Test
	8/27/76	Engine retrimmed
	10/26/76	''3000-Hour'' Emission Test

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Unit No./ Serial No.	Date	l tem
15/671293		Original Test A/C No. 2268, Position No. 3
15/0/1255	8/28/75	Baseline Emission Test
	8/31/75	Pneumatic system will not shift to "HI" bleed in "Auto" position
	11/18/75	''600-Hour'' Emission Test
	2/23/76	"1200-Hour" Emission Test
	3/1/76	Engine retrimmed
	5/26/76	"1800-Hour" Emission Test
	8/3/76	''2400-Hour'' Emission Test
	8/27/76	Retrimmed engine
	10/6/76	Engine removed due to damaged compressor stators
16/671164		Original Test A/C No. 2268, Position No. 4
	8/29/75	Baseline Emission Test
	11/3/75	Engine removed from program due to high vibration
17/645691		Original Test A/C No. 2269, Position No. 3
	9/10/75	Baseline Emission Test
	11/19/75	"600-Hour" Emission Test
	2/9/76	Engine retrimmed
	3/5/76	"1200-Hour" Emission Test
	6/2/76	"1800-Hour" Emission Test
	8/20/76	'2400-Hour' Emission Test
	9/9/76	Rerigged throttle
	11/16/76	"3000-Hour" Emission Test
	11/10//0	"3000-Hour" Cill 55101: Test
18/671297		Original Test A/C No. 2269, Position No. 4
	9/10/75	Baseline Emission Test
	10/9/75	Will not shift to high pneumatic, replaced switch
	11/19/75	''600-Hour'' Emission Test
	12/23/76	Engine removed due to high oil consumption

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3. NOMENCLATURE

Name	Symbol	Description	Unit
TSO	TSO	Time Since Overhaul	h-s
TSB	TSB	Time Since Baseline	hrs
AMB TEMP	T _a	Ambient temperature	deg R
AMB PRESS	Pa	Barometric pressure	in Hg abs
AMB HUMID	н	Ambient humidity	15m H2O per 15m dry air
MODE 1		idle, initial - 60 percent N ₂ nominal	
MODE 2		Idle 'plus', initial - 64 percent N2	
MODE 3		Take-off - T.O. EPR from airline engine operating guide	
MODE 4		Climb - EPR corresponding to 85 percent T.O. thrust	
MODE 5		Intermediate - EPR corresponding to 60 percent T.O. thrust	
MODE 6		Approach - EPR corresponding to 30 percent T.O. thrust	
MODE 7		ldle "plus", final - see MODE 2	
MODE 8		Idle, final - see MODE 1	
NI SPEED	N ₁	Rotational speed of low pressure turbine, given as a percent of design speed (7000 rpm)	percent
N2 SPEED	N ₂	Rotational speed of high pressure turbine, given as a percent of design speed (9655 rpm)	percent
CORR NI	N ₁ '	N ₁ speed corrected to standard ambient conditions (Ref 1)	percent
		$N_1' = N_1 \times \sqrt{518.7/T_a}$	

Name	Symbol	Description	Unit
CORR N2	N2'	Corrected N ₂ speed (Ref 1) N ₂ ' = N ₂ $\times \sqrt{518.7/T_a}$	percent
FUEL FLOW	F	Fuel Flow	1bm per hr
CB F/A	(F/A) _{CB}	Carbon balance fuel-air ratio (Ref 2, dry b	asis)
		$(F/A)_{CB} = \frac{(12+a) \times 4.77(1+0.25a)}{(1+0.25a)(32+3.73\times28+0.04\times40)} +$	
		$\left[\frac{\frac{100}{\frac{\text{CO+CO}_2+\text{HC}_1}{10^{4_1}}} + 0.25a - \frac{1}{2} \left(\frac{\frac{\text{CO/10}^{4_1}}{\frac{\text{CO+CO}_2+\text{HC}_1}{10^{4_1}}}\right) - \frac{(144)^{\frac{1}{2}}}{\frac{\text{CO+CO}_2}{10^{4_1}}}\right) - \frac{(144)^{\frac{1}{2}}}{\frac{\text{CO+CO}_2}{10^{4_1}}}\right]$	0.25a) HC/10 ⁴ 0.4002+HC
	·	where a is the hydrogen-carbon ratio of the fuel as obtained in the fuel analysis. (A mean-value was used when the analysis was not available; amean = 1.90)	
PERF F/A	(F/A) _{PF}	Performance fuel-air ratio, obtained iteratively from	
		(F/A) _{PF} = FVTT7/3600 W x CD x ARN x A _{F6} ; x EPR x P _a	
		EPR is obtained from the curve shown in Figure 1 for modes 1,2,7, and 8. Actual test data is used for the other modes.	
		W (nozzle flow parameter) =	
		$\frac{M\sqrt{\gamma_{g}/R}}{(1 + \frac{\gamma - 1}{2} M^{2})^{\frac{\gamma}{1 - 4}}}$	
		M(nozzle discharge Mach Number) = $\begin{bmatrix} \frac{\gamma-1}{\gamma-1} \\ \frac{\gamma-1}{2} \end{bmatrix}$	
		g = 32.174 ft per sec ²	

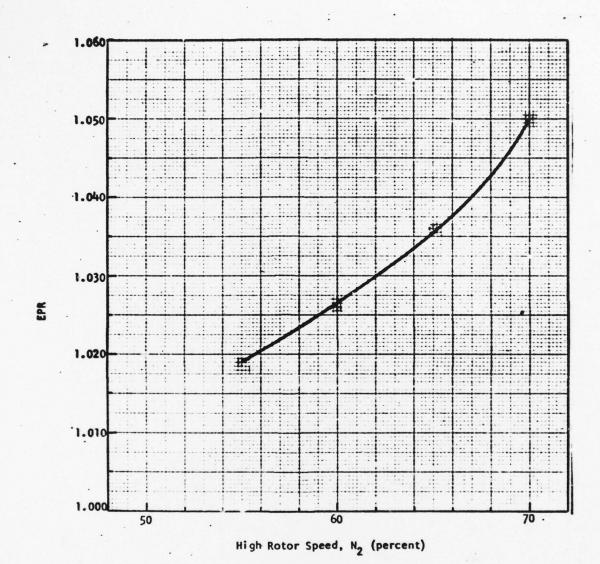


Figure 1. Mean EPR versus N_2 Curve in the Idle Regime

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Name	Symbol	Description	Unit
PERF F/A		ARN(nozzle discharge area) = 538 sq in	
Continued		7 (nozzle specific heat ratio) = 1.3837 -0.685 (F/A) _{PF}	
		-0.0000636 (T _{T7} -950)	
		R(nozzle ges constant) =	
		53.342 + 4.797 (F/A) _{PF}	
		A _{rat} (nozzle thermal growth ratio) =	
		1 + 0.000015 (T _{T7} -200)	
		CD(nozzle discharge coefficient) =	
		0.88 + 0.0667 (EPR -1)	
		Initially, (F/A) _{CB} is used in the calculation of 7 and R	
π7	т _{т7}	Exhaust gas temperature	deg R
EPR	EPR	Engine pressure ratio	
THRUST	ТН	Thrust, obtained from TH = TH'x(P _a /29.92) (Ref 1)	1bf
CORR FU FL	F'	Corrected fuel flow (Ref 1) F' = F x (29.92/Pa) x 518.7/Ta	lbm per hr
COR CB F/A	(F/A) LB	Corrected carbon balance fuel-air ratio (Ref 1) (F/A) = (F/A) x (518.7/Ta)	
COR PF F/A	(F/A)	Corrected performance fuel-air ratio (Ref 1) (F/A) = /A) PF × (518.7/Ta)	
CORR TT7	т _{т7} '	Corrected exhaust gas temperature TT7' = TT7 x (518.7/Ta)	deg R

Name	Symbol	Description	Unit
COR THRUST	тн	Corrected thrust (obtained from curve shown in Fig 2 for modes 3 through 6 and from the curve shown in Fig 3 for modes 1, 2, 7 and 8	1bf
CO2 CONC	co ₂	Concentration of carbon dioxide	percent .
CO CONC	со	Concentration of carbon monoxide	ppm
HC CONC	нс	Concentration of hydorcarbons (propane)	ppm
NO CONC	NO	Concentration of NO	РРМ
NUX CONC	NO	Concentration of NO _X	ppm
CO2 EI	EI _{CO2}	Emission index of carbon dioxide (Ref 3)	1bm per 1000 1bm fuel
		$EI_{CO2} \approx \frac{M_{CO2} \times CO_2 \times 1000}{(M_C + a \times M_H) \frac{(CO + CO_2 + HC)}{10^4}}$	
		where: M _C = atomic weight of carbon	
		M_{H} = atomic weight of hydrogen M_{CO_2} = molecular weight of CO_2	
CO EI	EI _{CO}	Emission index of carbon monoxide (Ref 3) $EI_{CO} = M_{CO} \times \frac{CO}{10^4} \times 1000$ $\frac{(M_C + a \times M_H) (CO + CO_2 + HC)}{10^4}$	1bm per 1000 1bm fuel
		where: M _{CO} = molecular weight of CO	
HC EI	EIHC	Emission index of hydrocarbons (Ref 3)	1bm per 1000 1bm fuc.
		$\frac{\text{E1}_{\text{HC}} = \frac{\text{M}_{\text{HC}}}{\text{M}_{\text{C}}} \times \frac{\text{MEC}}{10^4} \times 1000}{\left(\frac{\text{M}_{\text{C}}}{10^4} + 2 \times \frac{\text{M}_{\text{H}}}{10^4}\right) \left(\frac{\text{CO}_4}{10^4} + 2 \times \frac{\text{MEC}}{10^4}\right)}$	
		where: M = molecular weight of methane	
NO EI	E I NO	Emission index of NO (Ref 3) $EI_{NO} = \frac{M_{NO_2} \times \frac{NO_1}{10^{4}} \times 1000}{(M_C + a \times M_H) \frac{(CO_1 + CO_2)}{10^{4}} + \frac{HC}{10^{4}}}$	lbm per 1000 lbm fuel
		where: M _{NO2} = molecular weight of NO ₂	

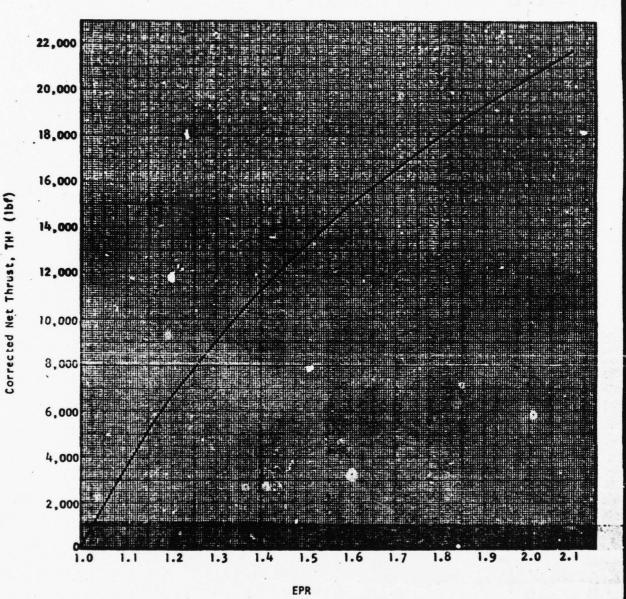


Figure 2. Estimated Engine Thrust versus Engine Pressure Ratio Characteristic with NAFEC Emissions Sampling Rake Installed

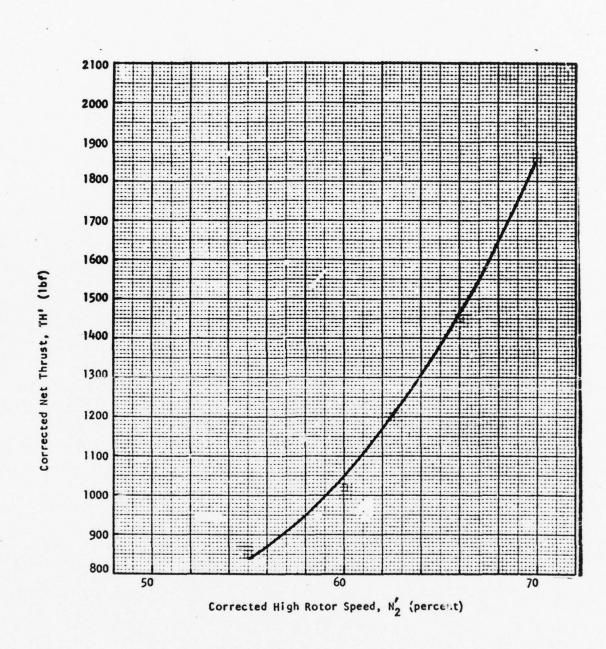


Figure 3. Estimated Engine Thrust versus Corrected High Rotor Speed in the Idle Regime

Name	Symbol	Description	Unit
NOX EI	EI _{NOx}	Emission index of NO _x (Ref 3) $EI_{NO_x} = \frac{M_{NO_2} \times \frac{NO_x}{10^4} \times 1000}{(M_C + a \times M_H) \frac{(CO_1 + CO_2 + HC_1)}{10^4}}$	1bm per 1000 1bm fuel
SMK NUMBER FRONT SIDE	SN	Smoke Number (Ref 3) SN = 100 × (1-RS/RW) where RS = smoke spot reflectance RW = reflectance of clean filter paper	
SMK NUMBER CORRECTED	SN'	Smoke Number corrected in manner shown in Appendix III of Volume I	
NREC CO EI	(EI _{CO}) std	AREC corrected CO emission index (see Appendix II of Volume I) (EI _{CO}) _{std} = F _{CO} x EI _{CO}	1bm per 1000 1bm fuel
NREC HC EI	(EI _{HC}) std	NREC corrected HC emission index (see Appendix II of Volume I) $(EI_{HC})_{std} = \frac{F_{HC}}{(F_{HC})_{std}} \times EI_{HC}$	1bm per 1000 1bm fuel
NRE CNO EI	(EI _{KO}) _{std}	NREC corrected NO emission index (see Appendix II of Volume I) $(El_{NO})_{std} = \frac{(F_{NO})_{std}}{F_{NO}} \times El_{NO}$	1bm per 1000 1bm fuel
NR CNOX EI	(EI _{NOx}) std	NREC corrected NO emission index (see Appendix II of Votume I) (EI _{NO}) _{std} = (FNO)std × EI _{NO} _x	1bm per 1000 1bm fuel
FCO	Fco	CO emission factor $F_{CO} = \begin{bmatrix} P_{b,obs} \\ P_{b,ref} \end{bmatrix} \cdot \begin{bmatrix} T_{b,obs} \\ T_{b,ref} \end{bmatrix}^{1/2}$	
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Name	Symbol	Description
FCO Continued		$\begin{cases} \frac{e^{T_b,obs/2000}}{e^{T_b,ref/(400-F/A_{obs}\times10^4)}} & \text{for modes 1,2,7,8} \\ \frac{obs/(400-F/A_{obs}\times10^4)}{e^{T_b,ref/(400-F/A_{ref}\times10^4)}} & \text{for modes 3,4,5,6} \end{cases}$
		where: $P_{b,ref} = P_{a,ref} \cdot f_1 \left(\frac{N_2 \cdot ref}{\sqrt{\frac{T_{a,ref}}{518.7}}} \right)$
		$T_{b,ref} = T_{a,ref} \cdot f_2(N_{2,ref} / \sqrt{\frac{T_{a,ref}}{518.7}})$
		$P_{b,obs} = P_{a,obs} \cdot f_{1} \left(N_{2,obs} / \sqrt{\frac{T_{a,obs}}{518.7}} \right)$ $T_{b,obs} = T_{a,obs} \cdot f_{2} \left(N_{2,obs} / \sqrt{\frac{T_{a,obs}}{518.7}} \right)$
		$T_{b,obs} = T_{a,obs}$ $\frac{1}{518.7}$ $f_2(^{N_2,obs}/\sqrt{\frac{T_{a,obs}}{518.7}})$
		where the functions f_1 and f_2 are obtained from curves supplied by P&WA (see Fig 4)
		Subscript 'obs' refers to actual values or values observed for a particular test and mode.
•		Subscript "ref" refers to reference values, arbitrarily chosen as the average values for the baseline tests (and at take-off power where appropriate)
		The reference values were:
		F/A, ref = 0.0162
		N _{2,ref} = 9891 rpm
		Pa,ref = 29.92 in Hg abs
		T _{a,ref} = 520.2 deg R

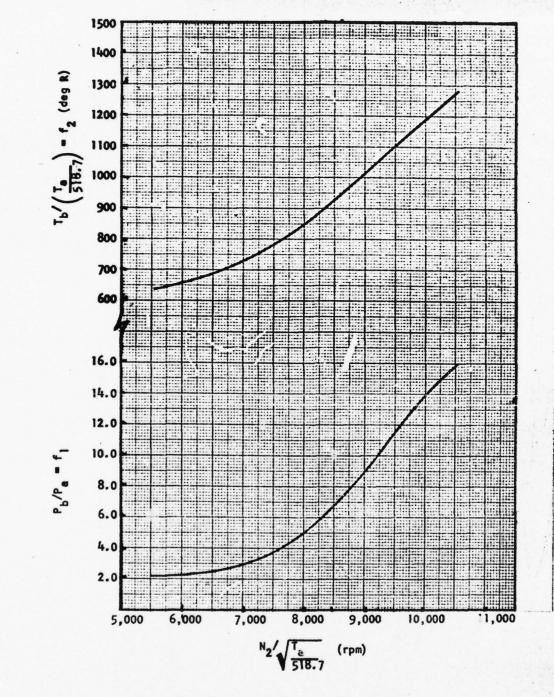


Figure 4. Typical Production Engine Performance

Name	Symbol	Description
FHC	FHC	HC emission factor $F_{HC} = \begin{bmatrix} P_{b,obs} \\ P_{b,ref} \end{bmatrix}^{1.8} \begin{bmatrix} T_{b,obs} \\ T_{b,ref} \end{bmatrix}^{1/2}$ $= 0.00714 (T_{b,obs} - T_{b,ref})$
FNO	F _{NO}	NO emission factor $F_{NO} = \left[\frac{P_{b,obs}}{P_{b,ref}}\right]^{1/2} \cdot e^{\left\{0.00167(T_{b,obs} - T_{b,ref}) - 19H\right\}}$
STD FCO	(F _{CO}) std	Corrected CO emission factor

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THE RESIDENCE

Name	Symbol	Description	Unit
STD FC0 Continued		P _{b,std} = P _{a,std} · f ₁ (N _{2,obs} /√T _{a,obs} /518.7)	
	·	$T_{b,std} = f_2\left(N_{2,obs}/\sqrt{\frac{T_{a,obs}}{518.7}}\right)$	
		Subscript "std" refers to standard day condi (i.e., 518.7 deg R, 29.92 in Hg abs and 0.0 lbm dry air), or a value corrected to standa day condition.	1bm H_0/
STD FHC	(F _{HC}) _{std}	Corrected HC emission index $(F_{HC})_{std} = \begin{bmatrix} P_{b,std} \\ P_{b,ref} \end{bmatrix}^{1.8} \cdot \begin{bmatrix} T_{b,std} \\ T_{b,ref} \end{bmatrix}^{1/2}.$	
		0.00714 (Tb,std -Tb,ref)	
STD FNO	(F _{NO}) _{std}	Corrected NO emission index $ (F_{NO})_{std} = $	_e)
API	5	Specific gravity of jet fuel measured at 60 "Relative Density or Density of Liquid-Balar and converted to API gravity using a converse	nce Method ⁸⁴
H/C RATIO	a	Hydrogen-carbon ratio as determined using a Erba Model 1100 elemental analyzer and the encapsulation technique.	
FIA		Flourescen' Indicator Adsorption - Fuel samples were analyzed for paraffin, olefin, and aromatic content using the ASTM Method D1319-70.	

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4. EMISSIONS AND ANALYSIS DATA

The data which appears on the following pages consists of actual test data as well as calculated values which were used for analysis purposes. In examining this data, certain points should be noted, as listed below:

- Data has been rounded off to no more than 4 significant figures.
- 2. In some instances, the NO analyzer gave high readings than the NO $_{\rm X}$ analyzer. In these cases, the NO $_{\rm X}$ emission index and the NREC corrected emission index were set equal to the corresponding NO values. The NO $_{\rm X}$ concentration and the FAA corrected emission index were not changed.
- In certain tests, smoke data could not be obtained for a particular mode. Values of 0.0 are printed in the tables for these cases.
- Unit 13 was fitted with a low smoke combustor. This is reflected in the markedly different pollutant levels recorded.
- 5. The calibration gas concentrations for NO and NO_X were questionable for the nominal 50 ppm bottle for tests conducted between 10/10/75 and 6/14/76; and for the nominal 200 ppm bottle for tests conducted between 11/18/75 and 4/22/76. The test data was processed in two different ways: the first assuming the stated concentrations were correct; and the second using calculated values for the concentrations. This is discussed in detail in Appendix IV of Volume I. In the following tables, the concentrations and emission indexes of NO and NO_X are based on the stated calibration gas concentrations, while the NREC corrected emission indexes are based on the calculated values.
- 6. The following items of data were found to be erroneous and were changed in the data base:

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Unit Number	Test Series	Mode	Quantity
1	"1 200-Hour"	4	N,
. 3	"Baseline"	4	N ₂
7	"B seline"	2	EPR
13	"1200-Hour"	8	Fuel Flow

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JT3D-7 . BASELINE TEST SERIES .

UNIT	TSO HR	TSB HR	AMB TEMP DEG R	AMB PRESS IN MG	AMB HUMID RIANOSH BJ
1	16586.	0.	520.5	29.98	.009730
5	18963.	0.	520.2	29.92	.009690
3	17724.	0.	520.2	29.92	.009690
4	16688.	0.	520.2	29.95	.009680
5	16589.	0.	519.7	29.96	.008720
6	17087.	0.	519.7	29.96	.008720
7	17206.	0.	519,7	29.96	.608720
8	18194.	0.	517.2	29.94	.009310
9	16703.	0.	520.7	29.99	.010160
10	18681.	0.	520.7	30.00	.010160
11	15765.	0.	520.7	30.01	.010150
12	18082.	0.	516.2	29.91	.008410
13	17365.	0.	555.5	30.10	.009890
14	18613.	0.	555.5	30.11	.009890
15	18992.	0.	522.2	30.12	.009880
16	18616.	0.	522.2	30.12	.009880
17	25865.	0.	519.2	29.93	.008280
18	17340.	0.	519.2	29.93	.008280

JT30-7 - BASELINE TEST SERIES -

MODE 1

UNIT	NI SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR N2 PER CENT
1	32,00	60.00	31.95	59.90
2	33.00	60.00	32.95	59.91
3	33.00	60.00	32.95	59.91
•	32.50	60,00	32.45	59.91
5	33.00	60.00	32.97	59.94
6	33,00	61.00	32.97	60.94
7	32,40	61.00	32.37	60.94
8	31,80	59.90	31.85	59.99
9	32.20	60.00	32.14	59.88
10	-35,10	-62.10	-35.03	-61.98
11	31.80	60.00	31.74	55.88
12	32,20	61.00	32.28	61.15
13	32,40	60.50	32.29	60.30
14	33.00	61.00	32.89	60.80
15	33.00	60.00	32.89	59.81
16	33,90	61.00	33.79	60.80
17	32.80	60.00	32.78	59.97
16	32.20	60,00	32.18	59.97
		And the second control	1. 1.	Salar and Market and

JT30-7 . BASELINE TEST SERIES .

MODE 1

					2	
UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LRF
1	1170.	.8990	.8350	1032.	1.020	1015.
2	1270.	.8880	.9080	1032.	1.030	1017.
3.	1240.	.8780	.8870	1032.	1.040	1017.
4	1275.	.8660	.9110	1032.	-1.050	1016.
5	1250.	.8680	.9060	1064.	1.020	1017.
6	1290.	.8790		1032.	1.020	1086.
7	1160.	.8170	.7980	1032.	1.030	1086.
8	1180.	.8240	.8310	996.	1.030	1019.
9	1245.	8340	.8880	1032.	1,040	1014.
10	1340.	.8800	.9020	1060.	1,030	-1160.
11	1240.	.7890	.8840	1032.	-1.050	1013.
15.	1230.	.7830	.8480	1032.	1,020	1103.
13	-1100.	.7890	7670	1032.	1.020	1035.
14	1160.	7800	.7880	1014.	1.030	1070.
15	1270.	.8340	.9210	1077.	1.030	1006.
16	1250.	.8100	.8630	1050.	1.030	1070.
17	1270.	.7880	.9230	1068.	1,030	1019.
18	1190.	7770	.8580	1050.	-1.050	1019.

JT3D-7 . BASELINE TEST SERIES .

MODE 1

UNIT	CORR FU FL LBM/HR	COR CB F/A CO			THRUST
1	1174.	.8960	.8320	1028.	1017.
2	1272.	.8850	9060	1029.	1017.
3	1242.	.8760	.8840	1029.	1017.
	1278.	.8630	.9080	1029.	1017+
5	1253,	.8670	.9050	1062.	1018.
6	1293.	.8770	. 8860	1030.	1086.
7	1163.	.8150	.7970	1030.	1088.
8	1179.	.8260	.8340	999.	1020.
9	1250.	.8310	.8850	1028.	1016.
10	-1346,	.8770	.8980	1064.	-1163.
11	1246.	.7860	.8810	1028.	1016.
12	1227.	.7870	.8520	1037.	1103.
13	-1110.	.7830	7620	1025.	1041.
14	1171.	7740	.7820	1007.	1077.
15	1263.	.8280	.9150	1069.	1013.
16	1263.	.8050	.8570	1043.	1077•
17	1271.	.7870	.9220	1067.	1019.
18	1191.	7760	.8570	1049.	1019+

JT30-7 . BASELINE TEST SERIES .

MODE 1

UNIT	CO2. CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	1.551	1035.9	748.5	11.5	12.5
2	1.568	1006.3	631.4	6.2	12.0
3	1.542	1017.0	646.3	6.3	12.8
4	1.500	1051.8	683.9	3.7	11.7
5	1.488	1043.0	741.4	7.3	13,4
6	1.527	1022.6	693.0	6.2	12,6
7	1.432	925.7	608.2	5.2	11.7
8	1.434	935.4	642.5	6.8	13,1
9	1.449	1005.6	635.5	8,7	13,5
10	1.565	983,5	582.7	8.4	14.0
11	1.379	920.6	583.8	7.0	11.8
12	-1.351	951.8	631.2	7.5	12.4
13	1.500	-696.1	-266.1	11.0	13.8
14	-1.372	878.4	561.8	7.9	13.6
15	1.465	980.4	598.4	9.0	13.8
16	1.419	955.3	593.7	8.6	13.4
17	1.385	964.8	550.0	11.2	12.2
18	-1.374	913.6	530.3	10.6	12.0

JT30-7 . BASELINE TEST SERIES

HODE 1

UNIT	COS EI	CO EI	HC ET	NO EI LB/KLB FU	NOX EI LB/KLB FU	SMK NUMBER FRONT SIDE
1	2607.	110.78	137.51	2.01	2.20	16.33
2.	2665.	108.88	117.36	1.10	2.14	A March and Williams and the Control of the Control
3	2650.	111.28	121.48	1.13	2.31	21.85
	2617.	116.75	130.42	,67	2.13	
5	2588.	115,46	141.00	1.33	2.44	21.27
6	2623.	111.79	130,15	1.12	2.26	17,51
7	2647.	108,92	122.94	1.01	2.26	10,67
8	2629.	109.15	120.81	- 1.30	2.51	#22.07
. 9	2624.	115.91	125.83	1.64	2.56	17.73
10	2683.	107.32	109.24	1.51	2.51	A Section of the second section of the second
11	2640.	112.17	122.21	1.43	2.37	
12	2607.	116.92	133.20	1.51	2.51	14,46
13	-2870.	-84,74	-55.65	2,20	2.75	-6.62
14	2659.	108.33	119.03	1.60	2.76	i5,75
15	2653.	112.98	118.47	1.71	2.61	15.47
16	2646.	113,35	121.01	1.69	2.61	14,57
17	2657.	117.74	115.32	2.25	2.44	18,457
18	2671.	113.08	112.76	2.15	2.44	17.45

JT30-7 . BASELINE TEST SERIES .

MODE 1

						7
UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO X100	STO FHC X100	STD FNO X100
1	.1980	.0760	14.3950	.1970	.0740	17.2360
2	.1980	.0750	14.3940	.1970	.0740	17.2390
3	.1980	.0750	14.3860	.1970	.0740	17.2390
4	.1980	.0750	14.3960	.1970	0740	17.2390
5	.1980	.0750	14,6520	.1970	.0740	17.2460
6	.2010	.0790	14.8390	.2000	.0780	17.4660
7	.2010	.0790	14.8390	.2000	.0780	17.4660
8	.1970	.0730	14.4170	.1970	.0740	17.2560
9	.1980	.0760	14.2840	.1970	.0740	17.2330
10	2050	0850	14.6710	2040	0820	-17.6960
11	.1980	.0760	14.2910	.1970	.0740	17.2330
12	.2000	.0770	14.8460	.2010	.0790	17,5120
13	.2000	.0790	14.5040	.1980	.0760	17.3240
14	.2020	.0810	14.6010	.2000	.0780	17.4340
15	.1990	.0770	14.4200	.1970	.0740	17.2140
16	.2020	.0810	14.6050	.2000	.0780	17.4340
17	.1980	.0750	14.7600	.1970	.0740	17.2520
18	.1980	.0750	14.7600	.1970	.0740	17.2520

JT3D-7 . BASELINE TEST SERIES

HODE

UNIT	NREC CO EI LB/KLB FU	NREC HC EI LB/KLB FU	NRE CHO EI LB/KLB FU	NR CNOX EI LB/KLB FU	SMK NUMBER CORRECTED
1	111.25	140,43	2.41	2,63	16.33
2	109.12	119.09	1.31	2.56	25.33
3	111.54	123,31	1.35	2.77	21.85
4	117.11	132,62	.81	2.55	16.89
5	115.76	142.75	1.57	2.88	21.27
6	112.08	131.78	1.32	2.66	17.51
. 7 .	109.20	124,47	1.19	2.66	18,67
8	108.93	127.01	1.55	3.01	122.87
9	116.49	128,91	2.14	3:33	17.73
10	107.86	111.96	1.82	3.03	14.94
11	112.78	125,34	1.69	2.86	19.07
12	116.42	129.83	1.79	2.96	14.46
13	-85.59	-58,23	2.63	, 3,29	-6.62
14	109.45	124.68	1.91	3.30	15.75
15	114.18	124.15	2.04	3.11	15.47
16	114.55	126,83	2.01	3.12	14.57
17	117.87	115,96	2.63	2.85	18.45
18	113,19	113,39	2.51	2,85	17.45

JT3D-7 . RASELINE TEST SERIES .

MODE 2

				the state of the s
UNIT	N1 SPEED PER CENT	NZ SPEED PER CENT	CORR N1 PER CENT	CORR N2 PER CENT
••••	•••••		********	********
1	35,20	64.00	35.14	63.89
2	37.00	-65.00	36.95	64.91
3	36.00	64.00	35.95	63.91
•	35.50	64.00	35.45	63.91
5	36.80	64.00	36.76	63.94
6	-37.50	-65.50	37.46	-65.44
7	. 36,50	-65.00	36.46	64.94
8	35,80	64.90	35.85	64.99
9	36.10	64,30	36.03	64.18
10	-38.50	-66.00	-38.43	-65.87
11	35.00	64.00	34.93	63.88
12	36.00	-65.00	36.09	65-16
13	35.60	64.50	35.48	64.28
14	37,30	-65.00	37.17	64.78
15	36,50	64.00	36.38	63.79
16	37.20	-65.00	37.08	64.78
17	36.90	-65.00	36.88	64.97
18	36.20	-65.00	36.18	64.97

MODE 2

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A	TT7 DEG R	EPR T	HRUST LRF
1	1300.	9220	.8210	1059.	1.030	1297.
2	1390.	.8690	.8510	1048.	1,030	1372.
3	1360.	.8690	.8500	1032.	1.040	1301.
	1380.	.8420	.8620	. 1032.	1.050	1299.
5	1360.	.8400	.8620	1064.	1.020	1301.
6	- 1440.	.8500		1032.	1.030	-1408.
7	1260.	.8000	.7650	1032.	1.030	1372.
8	1310.	.8070	.7840	996.	1.040	1377.
9	1360.	.8170	.8410		1,050	1317,
10	1450.	.8650	.8610	1068.	1.040	-1437.
11	1340.	.7680	.8350	1032.	1.050	1294.
12	1330.	.7670	.8080	1032.	1.030	1390.
13	-1240.	.7840	.7600	1032.	1.030	*1320 .
14	1320.	.7670	.7940	1023.	1.040	1354.
15	1390.	.8160	.8780	1068.	1,040	1283.
16	1340.	.7890	.8160	1050.	1.040	1354.
17	1390.	.7800	.8580	1068.	1.030;	1376
18	1320.	.7670	.8090	1050·	1.050	· 1376.

M00E 2

UNIT	CORR FU FL LBM/HR	COR CB F/A CO	OR PF F/A CO	DEG R	THRUST LBF
1	1305.	9190	.8190	1055.	1299.
2	1392.	.8660	.8490	1045.	1372.
3	1362.	.8660	.8480	1029.	1301.
4	1383.	.8400	.8600	1029.	1301.
5	1363.	.8380	.8600	1062.	1303.
6	1443.	.8490	.8560	1030.	-1410.
7	1263.	.7990	.7630	1030.	1374.
8	1309.	.8090	.7860	999.	1378.
9	1366.	.8140	-8380	1028.	1320.
10	1456.	.8620	.8570	1064.	-1441.
11	1347.	.7650	.8320	1028.	1298.
12	1326.	.7710	.8120	1037.	1390•
13	-1251.	.7790	7550	1025.	1327.
14	1333.	.7620	.7880	1016.	1363.
15	1404.	.8110	.8720	1061.	1292.
16	1354.	.7840	.8160	1043.	1363.
17	1391.	.7790	.8580	1067.	1376.
18	1321.	.7660	.8080	1049.	1376.

UT30-7 . BASELINE TEST SERIES

HOOF 2

NIT	COS CONC	CO CONC	HC CONC		NOX CONC
-	PER CENT	PPH	PPH	PPH	KQQ
1.00	-1.646	953.4	-625.8	-12.3	13.9
	Medical J	4" 2" 2A'as	经营销品 76.5%		1 2 2 1
	1.575	876,1	4 4 4 4 4 4	6.0	the state of
3 -	1,566	926.5	532.2	6.6	13.7
4	1.506	The second second second	Same a transfer have with	3.6	The second secon
5	1.478	943,3	611.0	7.8	14.4
6	1.539	865.1			ZE 13.6
7	1.438	832.5	506.2	A TOWN TO	777.00
100	1	T. W.	Marie V	The Manu	the state of the state of
	1,443	823.3		6.3	
9	1.457	890.9	527.7	6.6	14.3
10	1.585	868.7	451.4	8.4	15.1
11	1.380	816.5	471.7	3.7	12.9
12	-1.359	845.4	- 528,4	6.8	13.1
13	1.521	-604.7		10.5	学是 为1
1	1.399	Lating . The 12		The state of the s	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
14	The state of the state of	- 95 Acres 1	424.9	The Transfer of the State of th	14.8
15	1.468	882.6	501.0.	9.3	14.5
16	1.419	859.9	481.8	1 118:4	14.0
17	1.398	858.7	492.0	e ins	
18	1.380	804-8	479.0	703	12.7

MODE 2

UNIT	COS EI	CO EI LB/KLB FU	HC EI LB/KLB FU	NO EI LB/KLB FU	NOX EI LB/KLB FU	SMK NUMBER FRONT SIDE
						-00000000
1	2695.	99.34	112.02	2.10	2.39	21.22
5	2736.	97.08	98.29	1.08	2.42	23.42
3	2720.	102.44	101.09	1.19	2.49	19.55
4	2700.	106.36	105.91	.67	2.33	18.97
5	2657.	107.92	120.10	1.46	2.70	-35.25
6	2732.	99,96	97.42	1.21	2.56	17.49
7	2712.	99,95	104.40	1.04	2.50	19.31
8	2701.	98,08	108,77	1.23	2.85	20,66
9	2694.	104.81	106.66	1.69	2.77	17.42
10	2764.	96.39	86.04	1.54	2.76	13.01
11	2713.	102.16	101.40	1.48	2.66	20.53
12	2677.	105.98	113.79	1.40	2.70	15.22
13	-2926.	-74.05	-41.48	2.11	2.98	-2.25
14	2754.	95.80	91.44	1.58	3.05	15.11
15	2715.	103.90	101.33	1.80	2.80	13.38
16	2715.	104.73	100.82	1.68	2.81	14.59
17	2706.	105.80	104.15	-2.32	2.66	16.78
18	2716.	101.08	103.10	1.91	2.61	17.52

MOOF 2

UNIT	FCO X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X100
1	.2120	.0970	15.2940	.2110	.0950	18.3110
2	.2160	.1040	15.5640	.2160	.1030	18,6510
3	.2120	.0970	15.2950	.2110	.0950	18,3160
4	.2120	.0970	15.2960	.2110	.0950	18,3160
5	.2120	.0970	15.5710	.2120	.0960	16,3260
6	2180	1080	16.0000	2180	1070	-18.8310
7	.2160	.1040	15.8560	.2160	.1030	18,6620
9	.2160	.1020	15.6060	.2160	-1040	18,6810
9	.2140	.1000	15.2580	.2130	.0970	18,4060
10	2210	1140	15.7370	2200	1110	-18.9800
11	.2126	.0980	15.1620	.2110	.0950	16,3060
12	.2160	.1020	15.8810	.2170	.1050	18.7360
13	.2150	.1030	15.4430	.2130	.0980	18,4420
14	2170	1070	15.5890	.2150	.1020	18,6090
15	.2130	.0990	15.3120	.2110	.0940	18,2750
16	2170	1070	15.5930	.2150	.1020	18.6090
17	.2160	.1040	15.9760	.2160	.1030	18,6730
18	.2160	.1040	15.9760	.2160	.1030	18,6730
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NOTE- MINUS SIGNS DENOTE OUTLING VALUES

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MODE 2

UNIT	NREC CO EI LB/KLB FU	NREC HC EI LB/KLB FU			
	******			******	
1	99.77	114.44	2.52	2.86	21.22
2	97.30	99.79	1.30	2.89	23.42
3	102.68	102.65	1.43	2.99	19.55
4	106.70	107.73	.80	2.79	18.97
5	108.21	-121.62	1.72	3.18	-35.25
6	100.22	98.67	1.42	3.01	17-49
7	100.21	105.73	1.23	2.94	19.31
8	97.68	107.20	1.48	3.41	20.66
9	105.34	109.32	2.04	3.35	17.42
10	96.88	88,24	1.85	3.32	13.01
11	102.72	104.04	1.78	3.21	20.53
12	105.52	110.83	1.65	3.18	15.22
13	-74.79	-43.44	2.52	3.56	-2.25
14	96.80	95.87	1.88	3.65	15-11
15	105.01	106.27	2.15	3.35	13.38
16	105.85	105.77	5.00	3.35	14.59
17	105.91	104.75	2.72	3.11	16.78
18	101.19	103.69	2.23	3.05	17.52

MODE 3

UNIT	NI SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR N2 PER CENT
1	101.70	102.20	101.53	102.03
2	102.00	102.00	101.85	101.85
3	102.00	102.00	101.85	101.85
•	101.00	102.50	100.85	102.35
5	102.10	102.00	102.00	101.90
6	102.90	101.00	102.80	.100,90
7	102.80	-103.00	102.70	-104.90
	101.90	103.00	102.05	103-15
9	101.30	102.00	101-11	101.80
10	102.00	101.00	101.80	100.61
11	102.00	103.20	101.80	103.00
15	102.20	103.00	102.45	103.25
13	102.30	-104.00	101.96	103.65
14	102.80	103.50	102.45	103.15
15	102.50	102.00	102.16	101.65
16	-103.70	103.10	-102.65	102.75
17	101.00	101.00	100.95	100.95
18	101.20	103.00	101.15	102.95

HODE 3

				No.		
UNIT	FUEL FLOW	CB F/A X100	PERF F/A X100	TTT DEG R	EPR	THRUST LRF
1	10340.	1.6060	1.4660	1431.	1.870	18810.
2	10350.	1.6440	-1.4970	1464.	1.860	18727.
3.	10080.	1.6080	1.4210	1392.	1.860	18724.
•	10100.	1.6020	1.4400	1428.	1.860	18705.
5	10230.	1.6010	1.4570	1460.	-1.860	-18947.
6	10230.	1.6760	1.4410	1428.	-1.880	-18947.
7	10160.	1.6090	1.4150	1395.	-1.880	-18947.
8	10120.	1.6250	1.4170	1392.	1.870	18839,
9	9900.	1.5790	1.396?	1401.	1.860	18680.
10	10190.	1.6480	1.4560	1437.	1.860	18677.
11	10180.	1.6360	1.4490	1428.	1.860	18668.
12 ·	10160.	1.6380	1.4340	1428.	-1.880	-18978.
13	9870.	1.6600	1.3830	1392.	1.860	18615.
14	9940.	1.6010	1.3870	1383.	1.860	18606.
15	10250.	1.6370	1.4770	1473.	1.860	18600.
16	. 10140.	1.6320	1.4470	1446.	1.860	18600.
17	9950.	1.6510	1.4600	1437.	-1.820	-18156.
18	9740.	1.6370	1.4070	1392.	-1.820	-18156.

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MODE 3

UNIT	CORR FU FL LBM/HR	COR CB F/A C	COR PF F/A CO	RR TT7 COR	THRUST
ï	10378.	1.6010	1.4610	1426.	18846
2	10363.	1.6400	-1.4920	1459.	18724.
3	10095.	1.6030	1.4170	1388,	18724,
	10125.	1.5970	1.4360	1424.	18724.
5	10254.	1.5980	1.4550	1457.	-18972
6	10254.	1.6730	1,4380	.1425.	-18972.
7	10183.	1.6060	1.4120	1393.	-18972.
8	10110.	1.6300	1.4210	1396.	18848
. 9	9942.	1.5730	1.3910	. 1395.	18724
10	10235.	1.6420	1.4500	1431.	18724
11	10230.	1.6300	1.4430	1422.	18724
12	10132.	1.6460	1.4410	1435.	-18972
13	9961.	1.6490	1.3740	1382.	18724
14	10037.	1.5900	1.3780	1373.	18724.
15	10353.	1.6260	1.4670	1463.	18724.
16	10242.	1.6210	1.4370	1436.	18724.
17	9958.	1.6500	1.4590	1435.	-18162.
18	9748.	1.6360	1.4050	1390.	-18162.

HODE 3

UNIT	CG2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC

1	3.383	55.0	-31.3	93.9	98.4
5	3.472	19.8	11.3	98.3	103.9
3	3,395	20.7	10.1	92.8	95.7
4	3.381	19.7	10.6	102.1	107.1
5	3.377	22.3	9.6	101.7	107.7
6	3,538	19.3	12.0	96.8	101.3
7	3.390	19.1	-25.5	97.5	100,3
8	3.427	18.7	10.0	101.3	103.8
9	3.327	17.6	6.9	107.8	112.8
10	3.475	20.1	7.7	91.0	97.0
11	3.448	18.7	11.1	98.7	102.2
12	3.458	19.0	7.7	98.7	101.0
13	3.506	14.7	4.6	-163.3	-170.1
14	3,378	18.5	8.8	101.6	107.1
15	3,450	19.9	*25.5	92.2	95.6
16	3.444	20.2	9.3	100.3	105.0
17	3.487	18.7	11.9	91.0	90.0
18	3,455	16.1	17.4	97.0	110.2

JT30-7 . BASELINE TEST SERIES .

MODE: 3

			*			
UNIT	COS EI	CO ET				SHK NUMBER FRONT SIDE
****	-			**********	**********	-
1:-	3147.	1,30	-3.18	9.13	9.57	56.99
2	3153.	1.15	1.12	9.33	9.87	53.94
. 3	3153.	1.22	1.02	9.02	9.30	50.53
•	3153.	1.17	1.08	9.95		\$6,78
5	3151.	1.33	•98	9.92	10.50	44,73
6	3151.	1.09	3.17	9.01	9,43	31,56
7	3147.	1.13	₹,59	9.46	9.73	7 56.38
	3149.	1.09	1600	10 70 1.73		A6.37
9	3146.	1,06	•12	A State Marin	the same of the same	44,00
10	3147.	1.16	.76	A. P. Strate	a self-	The state of the state of
11	-3147.	1.09	1.11	9.42	9.75	-69.21
12	. 3152.	1.10	.77			39,48
13	3153.	.84	.45	The many	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 A
. 14	3152.	1.10	89	A POPA	10.00	41.76
15	3147.	1,55	-2.54	The state of the	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-67.91
16	3151.	1.17	93	9.59		52.70
17	3153.	1.08	1.18	8.60		62.91
18	3152.	.93	1.73	9,25	10.51	59.22

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

MODE 3

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X100
1	94,6490	95.2670	82.1580	91.9740	92.1430	98.0910
5	100.1580	91.3240	81.3780	97.8320	89.0580	97.2940
3	92,9340	91.3510	81.3880	90,8210	89.0580	97.2940
4	96.8290	100.8410	83.3590	94.5510	98.1150	99,5770
5	91.6680	91.6690	82.9850	90.2440	99.9110	97,5160
6	96.1870	75,3730	79.1820	94.6370	73.9450	93.0520
7	111.2950	126,6770	89.6620	109,5190	124,1980	105.3530
8	107.0160	111.5610	86.0870	-109,9870	114.3840	103,3000
9	87.8070	91.6380	80.7250	85.0120	88.2140	97.0730
10	90.8130	75.3490	77.0290	87,8080	72.5460	92.6270
11	112.1000	115.7120	85.3760	108.2770	111.1910	102.6030
12	109.9320	111.5940	87.6000	-115.0850	116.5920	103.7740
13	-127.6380	-133.2080	88.7130	-119.7130	124.0480	105,3230
14	107.7670	122.9750	87.0460	101.3390	114.4570	103.3160
15	99.1130	92.0570	81.2240	93.1410	85.7350	96.4120
16	110.2500	113.9440	85.4800	103.5400	106.0220	101.4410
17	91.2620	75.3280	79.8560	90.6480	74.6550	93.2660
18	109.7950	111.1220	87.6490	109.0420	110.1030	102.3620

MODE 3

UNIT	NREC CO EI LB/KLB FU	NREC HC EI LB/KLB FU	NRE CHO EI LB/KLB FU	NR CNOX EI LB/KLB FU	SHK NUMBER CORRECTED
1	1.34	+3,29	10.91	11.42	56.99
2	1.17	1.15	11.16	11.80	53.94
3	1.25	1.05	10.78	11.12	50.53
4	1.20	1.11	11.89	12.47	56.78
5	1.35	1.00	11.66	12.34	44.73
6	1.11	1,19	10,59	11.08	51.56
. 7	1.14	-2,64	11.12	11.43	56.38
	1.07		11.68	11.96	
9	1.10	.74	-12.82	-13.42	44.00
10	1.20	79	10.36	11:05	45.32
11	1.12	1.15	11.32	11.71	-69,21
12	1.05	.74	11.14	11.41	39.48
13	.90	.49	-18.23	-18.99	-14.32
14	1.17	.96	11.77	12.40	41.76
15	1.23	-2.73	11.29	11.70	-67.91
16	1.25	1,00	11.38	11.92	52.70
17	1.09	1.19	-10.05		62.91
18	.94	1.75	10.80	12.27	59.22

NOTE- HINUS SIGNS DENOTE OUTLYING VALUES

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MODE 4

UNIT	N1 SPEED PER CENT	N2 SPEED PER CENT	CORR NI PER CENT	CORR N2 PER CENT
••••	660600004.0		*********	
1	96.00	99.40	95.84	99.23
. 2	96.50	99.00	96.36	98.86
3	97.00	100.00	96.86	99.86
•	96.00	100.00	95.86	99.86
5	96.50	99.00	96.41	98.90
6	96.90	98.50	96.81	98.41
7	96.20	-101.80	96.11	-101.70
8	95.00	99.80	95.14	99.94
9	95.60	99.00	95.42	98.81
10	96.20	98.00	96.02	97.81
11	96.50	100.60	96.31	100-41
12	96.00	100.00	96.23	100.24
13	96.80	101.00	96.48	100.66
14	97.00	100.80	96.67	100-46
15	, 96.20	99.00	95.88	98.67
16	97.20	100.20	96.87	99.86
17	96.00	98.50	95.95	98.45
18	95.80	100.00	95.75	99.95

MODE &

UNIT	FUEL FLOW	CB F/A	PERF F/A X100	TT7 DEG R	EPR ,	THRUST	
	********	*********					-
1	8420.	1.4170	1,3300	1332.	1.660	15794.	
2	8460.	1.4580	1.3600	1374.	1.660	15829.	5
3	8380.	1.4340	1,3200	1320.	1.660	15826.	****
4	8500.	1.4100	1.3550	1356.	1.660	15810.	
5	8400.	1.3990	1,3400	1358.	1,660	15805.	4
6	6330.	1.4650	1.3100	1320.	1,660	15805.	
7	8120.	1.3780	1.2646	1293.	1,660	15805.	
8	8040.	1.3940	-1.2300	-1248.	1.660	15818.	
9	8050.	1.3790	1.2820	1356.	1,660	15789.	3
10	8270.	1.4300	1.3170	1356.	1.660	15786	18
11	8370.	1.4300	1.3280	1347.	1.660	15779	. 6
12	8170.	1.4130	1.2890	1323.	1.660	15831.	
13	8080.	1.4650	1.2650	1320.	1.660	15734	
14	8140.	1.3990	1.2610	1293.	1.660	15726.	40.5
15	8340.	1.4440	1.3350	1383.	1.660	15721.	•
16	8300.	1.4440	1.3160	1356.	1,660	15721.	
17	8250.	1.4640	1.3620	1583.	-1,630	-15383.	
18	-7880.	1.4230	1.2710	1320.	-1,630	-15383.	
	1			12.79-		the same the same	Sec.

MODE 4

UNIT	CORR FU FL LBM/HR	COR CB F/A CO X100		RR TT7 COR	THRUST
1	8451.	1.4120	1.3250	1328.	15826.
2	8471.	1.4530	1.3560	1370.	15826.
3	8392.	1.4300	1.3160	1316.	15826.
4	8521.	1.4060	1.3520	1352.	15826.
5	8419.	1.3960	1.3370	1355.	15826.
6	8349.	1.4630	1.3080	1317.	15826.
7	8139.	1.3750	1.2610	1290.	15826.
8	8032.	1.3990	-1.2340	-1251.	15826.
9	8084.	1.3740	1.2770	1350.	15826.
10	8307.	1.4240	1.3120	1350.	15826.
11	8411.	1.4250	1.3220	1342.	15826.
12	8148.	1.4200	1.2950	1330.	15826.
13	8155.	1.4550	1.2560	1311.	15826.
14	8219.	1.3900	1.2520	-1284.	15826.
15	8424.	1.4350	1.3260	1373.	15826.
16	8384.	1.4340	1.3076	1347.	15826.
17	8257.	1.4630	1.3610	1381.	-15388+
18	-7886.	1.4210	1.2690	1318.	-15388•

MODE 4

UNIT		CONC	CO CONC	HC CONC PPH	NO CONC PPM	NOX CONC
. 1		2.980	30.6	The state of the	· 通道、参与	I do the state of
, 13 , 13		3.072	25.6 25.7	-8.9 6.5	82.8 81.5	85,9
5		2.970	25,2 28,4	7.9 7.2	\$ 14 A T 8 5	
6		3.006 2.097	21,4		79.7	86.8
. 8		2.933	25,6 24,2	£2.6	79.6	85.1
10		3.007	29.1	6.4	74.7	81,4
12		3.007 2.975	The sales	6.7	80.0	
13	-04	3.089 2.946	LA LANGE TO	6:6	a de la constante de la consta	
15 16		3.038 3.041	27.2 26.9	-17.8 -6.8	77.6	
17		3.086	14	-9,4	March 1900	74.5 89.9
		56 F	6 B	A. Carried Land	100 4 255	Transport Switch Tout

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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MODE 4

UNIT	COS EI	CO EI LB/KLB FU	LB/KLB FU		LB/KLB FU	FRONT SIDE
1	3149.	2.06	-2.21	8.88	9.43	52.14
2	3153.	1.67	-1.00	. 8.89	9.57	50.13
3	3153.	1.71	.74	8.99	9.37	50.27
4	3153.	1.70	•92	9.65	10.18	52.79
5	3151.	1.93	.84	9.55	10.34	49.87
6	3150.	1.78	98	8.51	9.26	47,58
7	-3147.	1.86	-2.11	8.98	9.69	50.13
8	3149.	1.75	.82	8.94	9.55	47.84
9	-3147.	1.67	.73	9.08	9.86	45,65
10	-3146.	1.94	.73	8.17	8.90	44.99
11	-3146.	1.52	-1.02	9.01	9.49	50.92
12	3151.	1.89	.78	8.85	9.34	-40.70
13	3153.	-1.06	.45	-12.21	-13.09	-14.63
14	3151.	1.51	.77	9.44	9.87	-0.00
15	-3148.	1.79	-2.02	8.41	8.78	49.40
16	3151.	1.77	.77	8.85	9.47	46 18
17	3153.	1.71	-1.06	7.67	7.95	44.
18	3152.	1.39	-1.44	8.10	9.89	44.32

MODE 4

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UNIT	FC0 X100	FHC X100	FNO X100	STD FCO X100	STD FHC X100	STD FNO
1	49.7210	54.7530	71.9340	48.5240	53.0190	85.9080
2	51.0350	50.3400	70.5370	50.0390	49,1440	84.3540
3	54.4260	61.5820	74.0420	53,3590	60.0780	88,5280
4	52.2580	61.6930	74.0940	51.2110	60.0780	88,5280
5	46.3130	50.5540	71.9390	45.7010	49.6190	84,5490
6	49.1300	45.6670	70.2000	48.4600	44,8280	82,5080
7	-59.4850	-88,1670	82.2150	58,6810	-86.4800	-96,6120
8	49.9660	59.7130	74.1110	51.0620	61.1540	88,9060
9	44.8200	50.4910	69.9620	43.6150	48,6730	84.1580
10	43.8390	40.9890	-66.5130	42.6330	39.5200	80.0080
11	57.6300	69,6790	75.6070	55,9680	67.0390	90.8890
12	52.6270	62.2120	76.1560	54.6010	64.8830	90.1780
13	-63.9700	75.5240	77.4420	-60,6070	70.5000	91.9940
14	55.8790	72.6560	76,7370	53.0480	67.7740	91.1270
15	50:0840	50.6510	70.3700	47.5220	47.2900	83.5770
16	56.7260	64.5150	74.5850	5.7800	60.1740	88,5610
17	49.0180	45.6580	70.8040	48.7300	45.2630	82.7000
18	53.4100	61.7870	76.1470	53.0970	61.2420	88,9370
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4 4 7

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MODE 4

UNIT			LB/KLB FU	NR CNOX EI	
		CD/KCO 70		EUNKED LO	**************************************
1	5.11	-2.29	10.61	11.26	52.14
5	1.70	-1.02	10,63	11.44	50.13
3	1.74	.76	10.63	11.20	50.27
4	1.74	.94	11.53	-12.16	52.79
5	1.96	.86	11.27	-12.16	49.87
6	1.81	1.00	10.00	10.88	47.58
7	1.89	-2.16	10.55	11.38	50.13
8	1.71	.80	10.72	11.45	47.84
9	1.72	.76	10.93	11.86	45.65
10	1.99	76	9.83	10.70	44.99
11	1.57	-1.06	10.84	11.41	50.92
12	1.82	.75	10.49	11.06	-40.70
13	-1.12	.48	-14.50	-15.55	-14.63
14	1.59	.83	11.21	11.72	-0.00
15	1.89	-2.16	9.98	10.43	49.40
16	1.87	.83	10.51	11.24	46.08
17	: .72	-1.06	8.95	9.29	49.54
18	1.40	-1.46	9.45	11.55	44.32

HODE 5

UNIT	NI SPEED PER CENT	NZ SPEZO PER CENT	CORR N1 PER CENT	CORR N2 PER CENT
1	87.00	95.00	86.85	94.84
5	87,00	94.50	86.87	94.36
3	87.00	95,00	86.87	94.86
•	87.00	95,90	.86.87	94.86
5	87,00	94,50	86.92	94.41
6	86.70	94.00	86.62	93.91
7	86,20	96,30	86.12	96.21
	85,90	95.70	86.02	95.84
9	85.10	94.10	-84.94	93.92
10	86.10	93.50	85.93	93.32
11	87.00	96.00	5.83	95.82
12	85.80	95.50	86.01	95.73
13	86,50	96.00	86.21	95.68
14	87.00	95.80	86.71	95.48
15	86,40	94.50	86.11	94.18
16	-88.00	95.70	-87.70	95.38
17	86.00	94.00	85.96	93.95
18	86.00	95.50	85.96	95.45

MODE 5

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST
1	6030.	1.2020	1.1900	1244.	1.400	11178.
2	6030.	-1-2470	1.1950	1248.	1.400	11202.
3 .	6040.	1.2150	1.1790	1212.	1.400	11200.
. 4	5930.	1.1930	1.1610	1221.	1.400	11189.
5	5920.	1.1750	1.1710	1248.	1.430	11185.
6	5800.	1.2190	1.1290	1208.	1.400	11185.
7	5660.	1.1510	1.0990	1203.	1.400	11185.
8	5770.	1.1790	1.1090	1176.	1.400	11194.
9	5560.	1.1560	1.0790	1203.	1.400	11174.
10	5780.	1.2020	1.1420	1248.	1.400	11172.
11	5910.	1.1770	1.1550	1551.	1.400	11166.
12 .	5540.	1.1710	1.0860	1221.	1.400	11204.
13	5600.	1.1920	1.0910	1221.	1.400	11135.
14	5630.	1.1490	1.0840	1194.	1.400	11129.
15	5940.	1.1990	1.1570	-1266.	1.400	11126.
16	5830.	1.1870	1.1430	1239.	1.400	11126.
17	5740.	:.2150	1.1670	1248.	-1.380	-10731.
18	5570.	1.1790	1.1240	1230.	-1.380	-10731.

JT3D-7 - BASELINE TEST SERIES

MODE 5

UNIT	CORR FU FL LBM/HR	COR CB F/A CO		R TT7 COR	THRUST
1	6052.	1.1980	1.1860	1240.	11200.
2	6038.	-1.2430	1.1910	1244.	11200.
3	6049.	1.2110	1.1760	1208.	11200.
4	5945.	1.1890	1.1580	1217.	11200
5	5934.	1.1730	1.1690	1245.	11200.
6	5813.	1.2170	1.1270	1206.	11200
7	5673.	1.1490	1.0970	1200.	11200.
8	5765.	1.1820	1.1130	1179.	11200
9	5584.	1.1510	1.0750	1198.	11200
10	5806.	1.1980	1.1380	1243.	11200
11	5939.	1.1720	1.1500	1216.	11200
12	5525.	1.1760	1.0910	1227.	11200
13	5652.	1.1840	1.0840	1213.	11200
14	5685.	-1.1410	1.0770	1186.	11200
15	5899,	1.1910	1.1490	1257.	11200
16	5889.	1.1790	1.1350	1230.	11200
17	5745.	1.2140	1.1660	1247.	-10735
18	5575.	1-1770	1.1230	1229.	-10735

MODE 5

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	2.520	65.9	-13.1	52.4	59,2
2	-2.618	54.8	-7.9	52.1	62,3
3	2.550	58.1	5.8	50.8	60,6
4	2.504	52.8	6.4	51.1	61.1
5	2.463	62.1	6.9	53.3	64.0
6	2,556	67.5	-8.4	49.7	60,3
7	2.410	65.7	-14.1	49.5	60,5
8	2.471	47.9	5.8	51.7	60.3
9	2.419	63.6	6.5	47.7	58,2
10	2.517	67.8	6.0	48,3	57,2
11	2.464	48.6	-7.5	51.2	59.9
12	2.450	-91.4	-8.9	45.8	58.0
13	2.504	-21.6	4.4	-70.2	-76.2
14	2,409	47.6	5.9	50.4	58,3
15	2.512	61.2	-13.9	48.R	56.9
16	2.489	62.7	6.5	49.2	59.5
17	2.550	60.6	-8.4	48.3	55,4
18	2.473	44.4	-9.8	51.6	59.6

MODE 5

			A STATE OF THE STA			A STATE OF THE STA
UNIT	CO2 EI	CO EI	HC EI LB/KLB FU	NO EI LB/KLB FU		SMK NUMBER FRONT SIDE
1	3145.	5,23	-1.79	6.84	7.72	52.70
. 2	3149.	4.19	-1.04	6.55	7,84	53.33
3	3149.	4.57	.78	6,56	7.82	53,95
4	3149.	4,23	.89	6.72	8.04	52.37
5	3145.	5.04	96	7,11	-8.54	
6	3144.	5,28	-1,12	6.39	7.76	
7	-3142.	5,45	-2.01	6.75	8.25	
. 8	3145.	3,88	.80	6.88	8.02	-39,35
9	-3141.	5,25	.92	6.48	7.90	49.14
10	-3141.	5,38	\$80	6.30	7.46	45.29
- 11	-3142.	3,95	-1.04	6.83	7.98	49.13
12	3141.	-7.46	-1.25	6,14	7.77	-43,37
13	3152.	-1.73	•60	-9.24	-10.03	-14,59
14	3147.	3,95	.85	6.89	7.96	45,73
15	3143.	4.87	-1.90	6.38	7.44	45.07
16	3146.	5.04	.89	6.50	7.86	TOTAL STREET,
17	3148.	4.76	-1.14	6.23	7.15	50.13
18	3149.	3,60	-1.37	6.87	7,93	-43.24

MODE 5

UNIT	FCO X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X100
1	22.4940	21.0940	56.9810	22.0430	20.4620	68.0780
2	22.5860	18,7410	55.3790	22.2250	18.3240	66.2510
3	22.8600	21.0480	56,9890	22.4950	20.5690	68,1660
4	22.2170	21.0860	57.0290	21.8510	20,5690	68.1660
5	20.5640	18,8480	56,5030	20.3370	18.5180	66,4240
6	20,6080	16.7620	54.8900	20,3770	16.4700	64.5300
7	24.2160	28.3740	62.4840	23.9460	27.8670	73.4480
8	23.6440	25.0980	60.0550	24.0600	25.6680	71.9810
9	19.1570	17.0870	53.6470	18.7330	16.5080	64.5660
10	19.0110	14.8130	-51.7880	18,5790	14.3100	62.3250
11	24.2460	26.4840	59.7720	23,6770	25.5340	71.8890
12	22.9200	24.0860	60.4650	23,5980	25.0550	71.5550
13	24.7340	26.4150	60.0030	23.6950	24.7570	71.3450
14	22.8790	25.2720	59.3630	21.9340	23.6680	70.5610
15	21.2010	18.7470	55,1570	20.3110	17.5650	65.5630
16	23.8100	24.7210	59.0470	22.8020	23.1400	70.1700
17	20.5090	16.7840	55.3870	20.4080	16.6470	64.7000
18	23.0540	23.7350	60.3240	22,9400	23.5380	70.4650

MODE 5

UNIT	NREC CO EI LB/KLB FU		NRE CNO EI LB/KLB FU		SMK NUMBER CORRECTED
1	5.34	-1.85	8.17	9.22	52.70
5	4.26	-1.07	7.83	9.38	53.33
3	4.64	.79	7.85	9.35	53.95
4	4.30	, ,91	8.04	9,61	52.37
5	5.10	.98	4,36	-10.05	48.92
6	5.34	-1.14	7,51	9.12	48.72
. 7	5.51	-2.05	7,94	9.69	52.00
8	3.82	.78	8,25	9.62	-39.35
9	5.37	.95	7.80	9.51	49.14
10	5.51	.85	7.58	8.98	45.29
11	4.04	-1.08	8.21	9.60	49.13
12	-7.24	-1.20	7.27	9.20	-43.37
13	-1.81	.64	-10,99	-11.93	-14.59
14	4.13	.90	8.18	9.47	45.73
15	5.08	~2.03	7.58	8.84	45.07
16	5.26	.96	7.72	9.34	45.80
17	4.78	-1.15	7.28	8.35	50.13
18	3.61	-1.38	8.03	9.26	-43.24

MODE 6

UNIT	N1 SPEED PER CENT	N2 SPEED PER CENT	CORR N1 PER CENT	CORR N2 PER CENT
1	70.00	87.50	69.88	87.35
. 2	71.00	87.00	70.90	86.87
3	70.50	87.50	70.40	87.37
4	70.50	88.00	70.40	87.87
5	70.40	87.00	70.33	86.92
6	69.00	86.00	68.93	85.92
7	67.60	88.00	67.53	87.92
8	68,90	88.00	69.00	88.13
9	-66.10	85.60	-65.97	85.44
10	68.10	85.50	67.97	85.34
11	69.00	88.00	68.87	87.83
12	70.00	89.00	70.17	-89.22
13	67.90	87.60	67.67	87.31
14	68.10	87.20	67.87	86.91
15	68.80	86.20	68.57	85.91
16	68,90	87.10	68.67	86.81
17	70.40	87.00	70.37	86.96
18	69.20	88.00	69.17	87.96

MODE 5

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UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST
1	3380.	.9850	.9730	1107.	1,170	5624.
2	3450.	-1.0000	1.0010	1122.	1,170	5636.
3	3430.	.9900	.9790	1086.	1.170	5635.
4	3450.	.9890	.9920	1104.	1.170	5629.
5	3390.	.9460	.9790	1115.	1,170	5627.
6	3300.	.9570	9370	1077.	1.170	5627.
7	3060.	.9390	.8730	1086.	1.170	5627.
8	3220.	.9180	.9110	1068.	1.170	5632.
9	-2990.	8710	.8480	1077.	1.170	5622.
10	3160.	.9630	.9110	1113.	1.170	5621
11	3240.	.8990	.9300	1104.	:.170	5618.
12	3360.	.9400	.9710	1113.	1,170	5637.
13	3040.	.9460	.8700	1104.	1.170	5602.
14	3040.	.8990	.8590	1077.	1.170	5599.
15	3240.	.9470	.9410	-1140.	1.170	5598.
16	3120.	.9150	.8920	1104.	1,170	5590
17	3380.	.9430	1.0190	-1140.	-1.160	-5328.
18	3190.	.9040	•9500	1113.	-1.160	-532 8.
		24	2 2 20 20		1 - 20 - 20	The way

MODE 6

UNIT	CORR FU FL LBM/HR	COR CR F/A C X100	OR PF F/A C	ORR TT7 COR	THRUST LBF
1	3392.	,9820	.9690	1104.	5635•
2	3454,	.9970	.9980	1118.	5635•
3	3435.	.9880	.9770	1083.	5635.
4	3458.	.9870	.9890	1101.	5635.
5	3398.	.9440	.9770	1112.	5635.
6	3308.	•9550	•9350	1075.	5635.
7	3967.	•9370	.8710	1084.	5635.
8	3217.	.9210	.9140	1071.	5635•
9	-3003.	8670	8450	1073.	5635.
10	3174.	•9590	.9070	1108.	5635.
11	3256.	.8950	•9260	1099.	5635.
12	3351.	•9450	.9760	1118.	5635.
13	3068.	•9400	.8640	1096.	5635.
14	3070.	•8930	.8530	1069.	5635.
15	3273.	•9410	.9350	1132.	5635.
16	3151.	•9080	.8860	1096.	5635.
17	3383.	•9430	1.0180	1139.	-5330•
18	3193.	•9030	•9490	1112.	-5330•

MODE 6

UNIT	COZ CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	2.046	177.3	20.9	-35 . 3	37.0
2	2.076	190.8	21.3	31.1	36,5
3	2.058	169.9	17.6	30.0	
	2.056	174.2	18.8	26.0	37.0
5	1.960	1.62.6	18.9	33.	-38,8
6	1.981	200,1	*24.2	30.0	
7	1.946	169.9	23.7	. 29.	35,3
8	1.908	132.3	12.0	26.1	34,8
9	-1.792	-226.4	-29.3	26.7	31.5
10	1.992	198.1	20.3	30.4	34,6
11	1.865	138,3	13.5	28.4	33,9
12	1.949	179.9	21.2	25.	36,1
13	1.977	-64.5	-5,9	33.0	38,3
14	1.867	154.6	14.7	29.0	33.9
15	1.963	176.4	23.0	****	35,2
16	1.894	182.4	20.9	24.	34.0
17	1.961	157.1.	16.3	29.	34,3
18	1.877	143.1	18.1	25.	34.6

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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MODE 6

UNIT	CO2 E1 LB/KLB FU	CO EI LB/KLB FU	HC FI LB/KLB FU	NO EI LB/KLB FU	NOX EI	SMK NIJMRER FRONT SIDE
1	3122.	17.22	3.49	5.64	5.91	44.59
S	3120.	18.25	3.50	4.89	5.74	48.67
3	3124.	16.41	2.93	4.86	5.80	46.43
4	3123.	16.84	3.12	4.13	5.87	45,48
5	3118.	18.48	3.28	5.57	-6.44	40.19
6	3113.	20.02	4.16	5.05	5.82	-0.00
7	3117.	17.32	4.16	4.87	5.91	43.07
8	3126.	13.79	2.15	4.48	5.96	43.45
9	-3097.	-24.91	-5.54	4.82	5.69	39.07
10	3111.	19.70	3.47	4.97	5.64	36.85
11	3121.	14.73	2.48	4.98	5.94	42.11
12	3117.	18.31	3.71	4.27	6.04	36.45
13	-3143.	-6.52	-1.03	5.49	-6.37	-6.31
14	3123.	16.46	2.68	5.17	5.92	38.68
15	3117.	17.83	4.00	4.77	5.85	36.50
16	3116.	19.09	3.75	4.18	5.85	35.81
17	3125.	15.94	2.84	4.86	5.72	39.89
18	3125.	15.16	3.29	4,43	6.02	-33.96

MODE 6

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X100
1	7.7000	3.7200	37.2540	7.5760	3.6190	44.5400
2	7.3970	3.3050	36.2200	7.3060	3.2400	43.3570
3	7.7310	3.7120	37,2590	7.6340	3.6370	44.5930
4	8.1540	4.1690	38.3350	8.0450	4.0770	45.8470
5	7.0220	3,3240	36.9540	6.9590	3.2720	43.4600
6	6.3650	2.6260	34.8920	6.3090	2.5860	41.0370
. 7	7.7580	4.1830	39.0770	7.6880	4.1160	45.9540
8	7.5400	4.2420	38.8140	7.7400	4.3270	46.5180
9	-5.6080	2.3740	-33.1160	-5.5120	2.3030	39,8930
10	6.0450	2.3180	-32.9240	5.9370	2.2490	39.6580
11	7.4520	4.1730	37.9980	7,3150	4.0380	45.7400
12	-8.7470	-5.4350	41.9780	-8.9490	-5.6330	-49,6350
13	7.4740	3.7950	37.3030	7.2260	3.5810	44.4240
14	6.8470	3,4620	36.4850	6.6240	3.2650	43.4370
15	6.4320	2.7370	34.4570	6,2190	2.5826	41,0210
16	6.8750	3.3850	36.2870	6.6480	3.1900	43,1930
17	7.0100	3.3280	37.2850	6,9820	3.3040	43.5630
18	7.4970	4.1870	39.4240	7.4670	4.1560	46,0610
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MODE 6

UNIT		NREC HC ET			
	******			*******	
1	17.50	3.59	6.74	7.06	44.59
5	18.48	3,57	5.85	6.87	48.67
3	16.62	2.99	5.81	6.94	46.43
4	17.07	3.20	4.94	7.02	45.48
5	19.64	3,34	6.55	-7.5R	40.19
6	20.20	4.23	5.94	6.85	-0.00
7	17.48	4.22	5.73	6.95	43.07
8	13.62	2.10	5.37	7.15	43.45
9	-25.34	-5.71	5.81	6.85	39.07
10	20.06	3,58	5,98	6.80	36 - R5
11	15.01	2.56	5.99	7.15	42.11
12	17.89	3,58	5.05	7.14	36.45
13	-6.74	1.09	6.54	-7.59	-6.31
14	17.02	2.85	6.16	7.05	38.08
15	19.45	4.24	5.67	5.96	36.50
16	19.74	3.98	4.98	6.96	35.81
17	15.00	2.86	5.68	6.68	39.89
18	15.22	3.32	5.17	7.03	-33.96

MODE T

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UNIT	NI SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR N2 PER CENT
-				
1	35.50	64.20	35.44	64.09
2	35,50	64.00	35.45	63.91
3	36.00	64.00	35.95	63.91
4	35.00	€1.00	34.95	63.91
5	35.80	-63.00	35.77	-62.94
6	36,00	64.00	35.97	63.94
7	35.00	64.00	34.97	63.94
8	34.50	-63.00	34.55	63.09
9	35.80	54.00	35.73	63.88
10	-38.90	-66,00	-38.83	-65.87
11	34.50	64.00	34,43	63.88
12	35.00	-65.00	35.08	-65.16
13	35.20	-64.50	35.08	64.29
14	-37.00	-65.00	36.88	64.78
15	35,90	64.00	35.78	63.79
16	36.10	-65.00	35.98	64.78
17	35.90	64.00	35.88	63.97
18	35.10	64.00	35.08	63.97

MODE 7

UNIT	FUEL FLOW	CR F/A X100	PERF F/A X100	TT7 DEG R	EPR 1	THRUST LRF
1	1220.	.7970	.7570	1032.	1.030	1311.
S	1315.	.8150	.8220	1032.	1.030	1301.
3 .	1300.	.8230	.7990	996.	1.050	1301.
4	1350.	.7970	.8430	1032.	1.050	1299.
5	.280.	.7830	.8310	1050.	1.020	-1230.
6	1350.	.8130	8340	1010.	1.030	1301.
7	1180.	.7660	.7370	1032.	1.030	1301.
8 .	1230.	.7910	.7790	996.	1.030	1242.
9	1310.	.7550	.8100	1014.	1.045	1295.
10	-1430.	.8310	.8420	1050.	1.040	-1437.
11	1270.	.7310	.7850	1014.	-1.060	1294.
12 .	1240.	.7220	.7500	1023.	1.020	-1390.
13	1200.	.7450	.7380	1041.	1.040	1320.
14	1270.	7190	.7570	1005.	1.050	1354.
15	1290.	.7770	.8150	1068.	1.040	1283.
16	1240.	.7550	.7480	1032.	1.040	1354.
17	1330.	.7690	.8450	1068.	1.030	1305.
18	1230.	.7390	.7820	1068.	-1.060	1305.

JT3D-7 * BASELINE TEST SERIES *

MODE 7

UNIT	CORR FU FL LBM/HR	COR CB F/A CO	R PF F/A (CORR TTT COR	THRUST.
1	1225.	.7950	.7540	1028.	1314.
5	1317.	.8120	.0050	1029.	1301.
3	1302.	.8200	.7970	993.	1301.
4	1353.	•7950	.8410	1029.	1301.
5	1283.	.7820	.8290	1048.	-1231.
6	1353.	.8110	.8330	1008.	1303.
7	1183.	.7650	.7350	1030.	1303.
8	1229.	.7930	.7810	999.	1242.
9	1316.	.7520	.8070	1010.	1298.
10	-1436.	.8280	.8390	1046.	-1441.
11	1276.	.7280	.7820	1010.	1298+
12	1237.	.7260	.7540	1028.	-1396-
13	1211.	.7400	.7330	1034.	1327.
14	1282.	7150	.7520	998.	1363.
15	1303.	•7710	.8090	1061.	1292.
16	1252.	.7500	.7430	1025.	1363.
17	1331.	•7680	.8440	1067.	1305.
18	1231.	•7380	.7810	1067.	1305.

JT30-7 * BASELINE TEST SERIES *

MODE 7

UNIT	COZ CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	1.434	849.7	495.9	13.1	14.2
5	1.482	844.2	460.7	9.5	14.0
3	1,489	872.5	483.A	9.4	14.0
4	1.450	855.5	443.9	6.7	12,8
5	1.382	902.0	-547.2	10.4	14.5
6	1.471	869.8	468.9	10.6	14.6
7	1.391	799.5	435.9	9.6	13,6
8	1.438	808.9	445.4	9.9	14.3
9	1.363	822.1	431.3	11.0	14.7
10	-1.546	806.4	362.9	12.8	16.0
11	1.342	755.3	363.3	10.5	13.8
12	-1.292	788.7	460.0	9.2	13,3
13	1.448	-604.9	-169.1	12.0	14.6
14	1.327	-716.1	-348.9	12.4	15.3
15	1.396	857.3	470.2	10.6	14.4
16	1.353	9559	475.0	10.1	13.9
17	1.391	843.3	442.9	11.9	13.8
18	1.352	746.4	394.2	9.8	13.7

JT30-7 . BASELINE TEST SERIES

MODE 7

UNIT	CO2 EI	CO EI LB/KLB FU	HC EI LB/KLB FU	NO EI LB/KLB FU	NOX EI LB/KLB FU	SMK NUMBER FRONT SIDE
1	2716.	102.40	102.67	2.60	2.81	19.44
.2	2746.	99,56	93.34	1.83	2.71	25.66
3	2732.	101.88	97.05	1.80	2.69	18.92
4	2744.	103.07	91.87	1.32	2.53	22.27
5	-2665.	-110.69	-115.35	2.10	2.93	16.78
6	2733.	102.82	95.23	2.06	2.84	16.44
7	2741.	100.28	93,93	1.99	2.80	18.22
8	2744.	98,23	92,93	1.97	2.86	19.54
9	2728.	104.69	94,35	2.31	3.07	15.82
10	-2807.	93.18	-72.03	2.43	3.04	13,65
11	2770.	99.26	82.03	2.27	2.98	19.95
12	2702.	105.02	105.23	2.02	2.91	14.10
13	-2931.	-77.94	-37.43	2.55	3.09	-3.50
14	2786.	95.66	80.07	2.71	3.37	16.01
15	2715.	106.10	99.98	2.16	2.93	13.78
16	2706.	104.77	103.89	2.12	2.90	14.59
17	2732.	105,39	95.09	2.44	2.83	17.51
18	2764.	97.09	88.11	2.09	2.93	12.75

JT3D-7 . BASELINE TEST SERIES .

MODE 7

UNIT	FCO X100	FHC X-100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO
1	.2130	.0990	15.3500	.2120	.0970	18.3780
2	.2120	•0970	15.2840	.2110	.0950	18.3160
3	•5150	.0970	15.2850	.2110	.0950	18.3160
4	•2120	.0970	15.2960	.2110	.0950	18.3160
5	20A0	.0900	15,2890	2070	0880	-17.9940
6	.2120	.0970	15.5710	.2120	.0960	18.3260
7	.2120	.0970	15.5710	.2120	.0960	18.3260
8	2080	.0880	15.0760	.2080	.0890	18.0450
9	.2120	•0970	15.1750	.2110	.0950	18,3060
10	2210	1140	15.7370	2200	1110	-18.9800
11	.2120	.0980	15.1820	.2110	.0950	18.3060
12	2160	.1020	15.8810	2170	1050	-18.7360
13	.2150	.1030	15.4430	.2130	.0980	18.4420
14	2170	1070	15.5890	.2150	.1020	18,6090
15	.2130	.0990	15.3120	.2110	.0940	18.2750
16	2170	1070	15.5930	.2150	.1020	18.6090
17	•2120	.0960	15.6880	.2120	.0960	18.3370
18	•2120	.0960	15.6880	.2120	.0960	18.3370

JT3D-7 . BASELINE TEST SERIES .

HODE 7

UNIT		NREC HC EI LB/KLB FU		NR CNOX EI LB/KLB FU	SMK NUMBER CORRECTED
1	102.85	104,90	3.11	3,36	19.44
2	99.79	94.75	2.20	3.25	25.66
3	102.13	98,55	2.16	3.23	18.92
4	103.40	93,46	1.59	3.03	22.27
5	-110.97	-116.81	2.47	3.45	16.78
6	103.09	96.44	2.42	3.34	16.44
. 7	100.54	95,12	2.34	3,30	18.22
. 8	98.03	91.61	2.35	3.42	19.54
9	105.21	96.70	2.79	3.70	15.82
10	93.66	-73.87	2.93	3.66	13.65
11	99.81	84.17	2.73	3.59	19.95
12	104.57	102.49	2.38	3.44	14.10
13	-78.72	-39.20	3.04	3.69	-3.50
14	96.66	83.95	3.24	4.02	16.01
15	107.24	104.86	2.57	3.50	13.78
16	105.89	108.99	2.53	3.46	14.59
17	105.50	95.64	2.85	3,31	17.51
18	97.20	88.61	2.45	3.42	12.75

JT30-7 . BASELINE TEST SERIES

MODE 8

UNIT	N1 SPEED PER CENT	N2 SPEED PER CENT	CORR N1 PER CENT	CORR N2 PER CENT
1	33.00	61.00	32.94	60.90
. 2	33.00	61.00	32.95	60.91
3	33,50	61.00	33.45	60.91
4	33.00	61.00	32.95	60.91
5	33.50	60.00	33.47	59.94
6	33.60	61.00	33.57	. 60.94
7	. 33.00	61.00	32.97	60.94
8	32,90	60.50	32.95	60.59
9	33.00	61.00	32.94	60.88
10	-35.00	62.00	-34.93	61.88
11	32.20	60.50	32.14	69.38
12	33.00	62.00	33.08	62.15
13	32.30	61.00	32.19	60.80
14	33.20	51.00	33.09	60.80
15	33.00	60.20	32.89	60.00
16	34.20	62.00	34.09	61.79
17	. 32.90	60.00	32.88	59.97
18	32,90	60,00	32.88	59.97

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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JT30-7 . BASELINE TEST SERIES

MODE 8

UNIT	FUEL FLOW	CB F/A X100	PERF F/A	TT7 DEG R	EPR	THRUST
1	1160.	.8410	.7980	1032.	1.030	1082.
2	1250.	.8440	.8620	1032.	1.030	1086.
3	1200.	.8480	8130	996.	1.050	1086.
4	1280.	.8290	.8810	1032.	1,050	1085.
5	1230.	.8180	.8860	1050.	1.020	1017.
6	1290.	.8380	.8860	1028.	1.020	1086.
7	1150.	.7910	.7910	1032.	1.030	1086.
8	1170.	.7990	.8070	996.	1.030	1062.
9	1240.	.7800	.8450	1014.	1.040	1081.
10	1310.	.8550	.8810	1059.	1.030	1153.
11	1200.	•765ú	.6320	1014.	-1,050	1044.
12	1220.	.7520	.8090	1023.	1.020	-1175 .
13	1110.	.7640	.7600	1032.	1.030	1071.
14	1160.	.7530	.7810	996.	1.040	1070.
15	1240.	.8030	.8850	1059.	1.030	1013.
16	1220.	7430	.8070	1032.	1.030	1147.
17	1260.	.7840	.9080	1050.	1.030	1019.
18	1160.	.7600	.8360	1050.	-1.060	1019.

JT3D-7 * BASELINE TEST SERIES *

MODE 8

UNIT	CORR FU FL LBM/HR	COR CB F/A X100	COR PF F/A	CORR TT7 COR	THRUST LBF
1	1164.	.8380	.7950	1028.	1085.
2	1252.	.8420	.8590	1029.	1086.
3	1202.	.8460	.8100	993,	1086.
4	1283.	.8260	.8790	1029.	1086.
5	1233.	.8160	.8840	1048.	1018.
6	1293.	.8370	.8850	1026.	1058.
7	1153.	•7900	.7900	1030.	1088.
8	1169.	.8020	.8090	999.	1062.
9	1245.	•7770	.8420	1010.	1084.
10	1316.	.8510	.8780	1055.	1155.
11	1206.	•7630	.8290	1010.	1048.
12	1217.	.7550	.9130	1028.	1175.
13	1120.	•7590	•7550	1025.	1077•
14	1171.	.7480	.7750	989.	1077.
15	1252.	.7970	.8790	1052.	1020•
16	1232.	7380	.8010	1025.	1149.
17	1261.	•7830	.9080	1049.	1019.
18	1161.	•7590	.8350	1049.	1019.

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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JT30-7 . BASELINE TEST SERIES

MODE 8

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UNIT	CONC	CO CONC	HC CONC	NO CONC	NOX CONC
1	1.474	949.9	633.5	12.1	13.5
2	1.499	933.3	575.7	8.4	13,2
3 .	1.499	960.0	599.7	8.2	13,0
4	1.468	956.0	563.2	5.6	11.6
5	1.411	977.9	-665.9	9.4	13,6
6	1.480	949.5	590.4	9.0	13,3
7	1.412	865.9	517.1	8,3	12,4
8	1.422	874.9	533.4	8.4	13.9.
9	1.364	920.2	573.4	10.0	13,8
10	1.541)29.9	503.0	11.2	14.6
11	1.371	845.0	473.1	9.0	,32.7
12	-1.311	863.9	576.8		.12,4
13	1.469	-661.5	-212.5	11.3	14,1
14	1.342	829.7	490.7	10.4	14.0
15	1.410	935.1	579.5	9.3	13.5
16	-1.299	881.0	549.0	8.7	12.0
17	1.382	922.9	550.8	10.9	12.9
18	1.357	827.7	499.0	8.7	13.0

JT3D-7 . BASELINE TEST SERIES .

MODE 8

UNIT	COS EI	CO EI	HC EI LB/KLB FU	NO EI LB/KLB FU	NOX EI	SMK NUMBER FRONT SIDE
			~~~~~			-9444444
1	2646.	108.56	124.38	2.26	2.53	18.75
5	2682.	106.25	112.62	1.56	2.47	25.17
3	2667.	108.73	116.68	1.53	2.41	16.93
4	2676.	110.88	112.22	1.07	2.21	20.88
5	-2606.	114.98	-134.51	1.81	2.63	7.53
6	2666.	108,86	116.28	1.69	2.50	17.85
7	2695.	105.17	107.90	1.65	2.48	17.50
A	2686.	105.20	110.19	1.67	2.75	21.07
9	2640.	113.35	121.34	5.05	2.80	17.17
10	2721.	104.49	97.11	2.06	2.69	14.57
11	2705.	106,09	102.06	1.95	2.61	19.52
12	2634.	110.51	126.75	1.64	2.60	14.06
13	-2899.	-83.11	-45.86	2.33	2.91	-4.27
14	2694.	105.99	107.68	2.18	2.94	15.45
15	2657.	111.99	119.23	1.83	2.66	14.52
16	2642.	114.02	122.08	1.84	2.54	15.78
17	2662.	113.14	115.99	2.20	2.60	17.04
18	2696.	104.69	108.43	1.80	2.69	12.16

## JT30-7 . BA! THE TEST SERIES .

MODE 8

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X100
1	.2010	.080C	14.5790	.2000	.0780	17.4570
2	.2010	.0790	14.5680	.2000	.0780	17.4600
3	.2010	.0790	14.5700	.2000	.0780	17.4600
4	.2010	.0790	14.5800	.2000	.0780	17.4600
5	•1980	.0750	14.6520	.1970	.0740	17.2460
6	.2010	.0790	14.8390	.2000	.0780	17.4660
7	•2010	.0790	14.8390	.2000	.0780	17.4660
8	.1990	.0760	14.5280	1990	.0770	17.3880
9	.2010	.0800	14.4670	.2000	.0780	17.4530
10	.2040	.0840	14.6520	.2030	.0820	17.6740
11	.2000	.0780	14.3820	.1990	.0760	17,3430
12	.2030	.0810	15.0340	.2040	.0830	17,7350
13	.2020	.0810	14.5960	.2000	.0780	17.4340
14	.2020	.0810	14.6010	.2000	.0780	17.4340
15	.2000	.0780	14.4570	.1970	.0750	17.2586
16	2050	.0860	14.7900	.2030	.0820	17.6550
17	•1980	.0750	14.7600	.1970	.0740	17.2520
18	.1980	.0750	14.7600	.1970	.0740	17.2520

### JT3D-7 . BASELINE TEST SERIES .

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HODE 8

UNI	REC CO EI	NREC HC EI LB/KLB FU	NRE CNO ET	NR CNOX ET LB/KLB FU	SMK NUMBER CORRECTED
				*****	*****
1	109.43	127.03	2.71	3.03	18.75
5	106.51	114.28	1.87	5.96	25.17
3	108.99	118,45	1.83	2.89	16.93
4	111.23	114.12	1.28	2.65	20.88
5	115.28	-136,18	5.13	3.10	17.53
6	109.14	117.74	1.99	2.94	17.85
7	105.44	109.25	1.94	2.92	17.50
A	104.98	108.65	2.00	3.29	21.07
9	1:3.92	124.31	2,44	3.37	17.17
10	105.02	99.53	2.49	3.24	14.57
11	106.67	104.68	2.25	3.15	19.52
12	110.04	123,53	1.94	3.07	14.06
13	-83.94	-47.99	2.78	3.47	-4.27
14	107.09	112.79	2.60	3.51	15.45
15	113.18	124.95	2.18	3.17	14.52
16	:15.24	127.97	5.50	3.03	15.78
17	113.26	116.64	2.57	3.04	17.04
18	104.80	109.04	5.10	3.15	12.16

UNIT	TSO HR	TSB HR	AMB TEMP DEG R	AMB PRESS IN HG	AMB HUMID
1	17235.	649.	514.7	29.98	.008120
2	19598.	635.	514.7	29.98	.008120
3	18359.	635.	514.7	29.98	.008120
4	17323.	635.	514.7	29.98	.008120
5	17198.	609.	520.5	29.99	.007970
6	17540.	453.	520.5	29.99	.007970
7	17815.	609.	520.5	30.00	.007970
8	18766.	572.	520.5	30.00	.007970
11	16419.	654.	510.7	30.15	.003540
12	18701.	619.	510.7	30.15	.003540
13	17927.	562.	519.7	30.29	.006830
14	19210.	597.	513.7	30.16	.003870
15	19589.	597.	513.7	30.17	.003870
17	26398.	533.	513.7	30.22	.004320
18	17873.	533.	513.7	30.22	.004320

# MODE 1

UNIT	N1 SPEED PER CENT	N2 SPEED PER CENT	CORR NI PER CENT	CORR NZ
1	33.00	60.00	33.13	60.23
5	33.00	60.00	33.13	60.23
3	33,50	60.00	33.63	60.23
•	33.00	60.50	33.13	60.73
5	33,50	60.50	33.44	60.40
6	33.00	60.50	32.94	60.40
7	. 32.00	60.00	31.95	59.90
8	32.00	60.20	31.95	60.10
11	33.00	61.00	33.26	61.48
18	32.00	60.50	32,25	60.97
13	33.00	61.00	32.97	60.94
14	33.00	61.00	33.16	61.30
15	33.50	60.00	33.66	60.29
17	32.00	-59.00	72.16	59.29
18	33.00	61.00	33.16	61.30

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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HODE 1

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST
1	1220.	9780	.8710	1032.	1.020	1035.
2	1270.	.8540	.9220	1068.	1.020	1035.
3	1290.	.8730	.9210	1032.	1.020	1035.
4	1330.	.8480	.9470	1068.	1.020	1071.
5	1225.	.9010	.8650	1050.	1.020	1046.
6	1270.	.8840	.8930	1041.	1.020	1046.
7	1150.	.8500	.8270	1050.	1.030	1014.
8	1190.	.8380	.8210	978.	1.020	1024.
11	1250.	.7970	.8400	996.	-1.050	1118.
12	1200.	.8250	.8290	1014.	1.010	1082.
13	1140.	.7890	7690	1014.	1.020	1074.
14	1180.	.8100	.7960	978.	1.030	1104.
15	1290.	.8890	.9230	1050.	1.030	1032.
17	1240.	.8870	.9030	1032.	1.020	986.
18	1250.	.8600	.8560	1041.	-1.060	1102.

MODE 1

UNIT	CORR FU FL LBM/HR	COR CB F/A	COR PF F/A	CORR TT7 COL	R THRUST LBF
1	1218.	9850	.8780	1040.	1037.
2	1268.	.8610	.9290	1076.	1037.
3	1244.	.8800	.9280	1040.	1037.
4	132A.	.8540	•9550	1076.	1073.
5	1230.	.8980	.8620	1046.	1049.
6	1275.	.8810	.8900	1037.	1049.
7	1155.	.8470	.8240	1046.	1017.
8	1195.	.8350	.8185	-974.	1027.
11	1250.	.8100	.8530	1011.	1126.
12	1200.	.8380	.8420	1030.	1090•
13	1155.	.7880	7680	1012.	109A.
14	1184.	.8180	.7940	-987.	1113.
15	1294.	.8980	.9320	1060.	1041.
17	1246.	.8960	•9110	1042.	996.
18	1256.	.8680	.8650	1051.	1113.

MODE 1

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HODE 1

UNIT	CO2 EI LB/KLB FU	CO EI	HC ET LB/KLB FU	NO EI LB/KLB FU	NOX EI	SMK NUMBER FRONT SIDE
1	2678.	-96.92	119.56	1.76	2.08	19.34
2	2610.	112.96	134.98	1.83	2.19	88.05
3	2638.	110.12	126.62	1.95	2.42	19.14
4	2621.	113.59	130.72	1.69	2.38	19.48
5	2628.	107.41	131.70	2•11	2.56	20.39
6	2646.	110.30	123.36	2.01	2.46	19.01
7	2636.	107.94	128.50	1.93	2.39	18.90
8	2613.	106.69	137.5A	1.80	2.48	23.98
11	2677.	106.68	112.69	1.95	2.70	24.29
12	-2552.	117.05	-153.21	1.97	2.51	22.25
13	-2974.	-84.71	-53.57	-2.61	2.81	-6.58
14	2646.	109.15	123.31	1.93	2.79	21.43
15	2628.	112.76	127.69	1.73	2.42	20.26
17	2597.	116.04	137.21	-2.35	2.58	22.22
18	2638.	106.95	127.36	1.93	2.65	21.85

MODE 1

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UNIT	FC0 X100	FHC X100	FNO X100	STD FCO X100	STD FHC X100	STD FNO X100
1	.1970	.0730	14.7250	.1980	.0750	17.3100
2	.1970	.0730	14.7250	.1980	.0750	17.3100
3	.1970	.0730	14.7250	.1980	.0750	17.3100
4	.1990	.0750	14.8190	.2000	.0770	17,4210
5	.2000	.0780	14.9810	.1990	.0760	. 17.3460
6	.2000	.0780	14.9810	.1990	.0760	17.3460
7	.1980	.0760	14.8890	.1970	.0740	17.2360
8	.1990	.0770	14.9270	.1980	.0750	17.2800
11	.2010	.0750	-16.2260	.2020	.0800	17,5850
12	.1990	.0730	-16.1240	.2000	.0780	17.4730
13	2030	.0810	15.4670	.2000	.0780	17.4660
14	.2010	.0770	-16.1940	.2010	.0800	17.5450
15	•1980	.072	-15.9930	.1980	.0760	17,3230
17	1950	.0700	15.6680	.1950	.0720	17.1010
18	•2010	.0770	-16.0730	.2010	.0800	17.5450
				The state of the s	The state of the s	

MODE 1

UNIT				NR CNOX EI	
	LB/KLB FU	LB/KLB FU	LB/KLB FU	LB/KLB FU	CORRECTED
1	-96.45	115.30	5.55	2.63	19.34
2	112.41	130.16	2.31	2.76	20.88
3	109.59	122.11	2.47	3.05	19.14
4	113.03	126.05	2.14	3.01	19.48
5	107.90	134.59	2.62	3.19	20.39
6	110.80	126.06	2.50	3.06	. 19.01
7	108.46	131.39	2.40	2.97	18.90
8	107.20	140.67	2.24	3.08	23.98
11	105.92	105.45	2.27	3.14	24.29
12	116.23	143.39	2.30	2.92	22.25
13	-85.63	-55.32	-3.41	3.41	-6.58
14	109.93	118.98	2.24	3.25	21.43
15	112.57	123.50	2.02	2.81	20.26
17	115.99	132.92	2.75	3.02	55.55
18	106.90	123.33	2.27	3.11	21.85

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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MODE S

UNIT	N1 SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR N2 PER CENT
	**********		*****	**********
•	36.00	64.00	36.14	64.25
2	36.00	64.00	36.14	64.25
3	37.00	64.50	37.14	64.75
4	35.50	64.00	35.64	64.25
5	36,50	64.00	36.44	63.89
6	36,50	64.00	36.44	63.89
7	35.00	64.00	34.94	63.89
8	35.00	64.00	34.94	63.89
11	35,30	64.00	35.58	64.50
12	35,30	64.50	35.58	65.00
13	35,50	64.00	35.47	63.94
14	36.00	64.00	36.17	64.31
15	37.00	64.00	37.18	64.31
17	36,50	64.00	36.68	64.31
18	36.00	64.00	36.17	64.31

MODE 2

UNIT	FUEL FLOW	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LRF
1	1330.	9510	.8300	1032.	1.030	1322.
2	1390.	.8310	.8750	1050.	1.030	1322.
3	1400.	.8530	.9610	1032.	1.030	1358.
4	1420.	.8270	.9010	1068.	1.030	1322.
5	1320.	.8660	.8300	1050.	1.020	1296.
6	1400.	.8630	.8770	1041.	1.020	1296.
7	1250.	.8270	.7830	1041.	1.030	1296.
8	1280.	.8210	.7780	-978.	1.030	1296.
11	1360.	.7800	.8290	996.	1.050	1333.
12	1370.	.8060	.8310	1016.	-1.010	1368.
1?	-1200.	.7750	7410	1032.	1.020	1287.
14	1250.	.7850	.7620	996.	1.040	1319.
15	1400.	.8650	.4750	1050.	1.035	1318.
17	1400.	.8550	.8670	1032.	1.030	1316.
18	1350.	.8360	.8430	1050.	-1.060	1316.

MODE 2

UNIT	CORR FU FL LBM/HR	COR CB F/A COR		R TT7 COR	THRUST
1	1328.	9580	.8360	1040.	1325•
2	1387.	.8370	.8810	1058.	1325.
3	1397.	.8600	.8680	1040.	1361.
4	1417.	.8340	.9080	1076.	1325.
5	1325.	.8630	.8280	1046.	1299.
6	1406.	.8600	8740	1037.	1299•
7	1255.	.8240	.7800	1037.	. 1299.
8	1286.	.8180	.7750	-974.	1299•
11	1360.	•7920	.8420	1011.	1343.
12	1370.	.8190	.8440	1030.	1379.
13	-1216.	.7730	7400	1030.	1303.
14	1254.	.7930	.7690	1005.	1323.
15	1405.	.8740	•8840	1060.	1329.
17	1407.	.8630	.8750	1042.	1329.
18	1357.	.8440	.8510	1060.	1329.

### MODE 2

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	-1./33	893.9	562.3	11.0	13.4
2	1.488	897.8	534.4	9.5	12.6
3	1.539	898,5	522.5	10.4	14.3
4	1.486	901.4	514.7	8.5	13.6
5	1.545	922.8	581.8	12.2	15.6
6	1.570	898.5	489.8	11.3	15.0
7	1.490	854.2	517.7	10-2	13,6
8	1.464	846.5	559.2	9.2	13,8
11	1.419	802.2	431.8	9.6	14.5
12	1.409	908.3	616.4	9.3	13.7
13	1.494	-639.1	-207.1	-13.1	14.4
14	1.406	837.0	501.6	9.1	14.8
15	1.557	935.1	530.6	9.7	14.5
17	1.524	945.9	562.5	-12.4	15.7
18	1.507	859.8	516.3	9.9	15.5

MODE 2

UNIT	CO2 EI	CO EI	HC EI LB/KLB FU	NO EI LB/KLB FU		SHK WIMRER FRONT SIDE
		*******				'/80000000
1	2749.	-90.26	97.54	1.82	5.55	18.92
2	2704.	103.82	106.17	1.80	2.39	19.92
3	2722.	101.15	101.06	1.92	2.64	18.43
4	2712.	104.71	102.72	1.62	2.59	18.91
5	2693.	102.37	110.88	2.22	2.84	21.22
6	2744.	99.54	93.61	2.07	2.74	18.23
7	2719.	99.23	103.31	1.94	2.59	19.22
8	2694.	99,12	112.50	1.77	2.65	24.90
11	2747.	98.86	91.42	1.94	2.93	22.44
12	-2639.	108,28	-126.24	1.21	2.68	20.85
13	-2908.	-79.18	-44.07	-2.67	2.93	-5.65
14	2705-	102.47	105.50	1.84	2.98	-0.00
15	2715.	103.80	101.19	1.7"	2.65	29.31
17	2691.	196.30	108.61	2.30	2.90	21.71
18	2721.	98,81	101.93	1.87	2.93	21.71

UNCLASSIFIED NREC-1238-9 FAA-RD-78-56-4 DOT-FA74NA-1100 NL							FA	A-RD-76		DOT-FAT			
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MODE 2

UNIT	FCO X100	FHC X100	FN0 X160	STD FCO	STD FHC X100	STD FNO
1	.2120	.0940	15.6740	.2130	.0980	18.4300
2	.2120	.0940	15.6740	.2130	.0980	18.4300
3	.2140	.0980	15.8170	.2150	.1020	18.5990
4	.2120	.0940	15.6740	.2130	.0980	18.4300
5	.2120	.0970	15.4150	.2110	.0950	18.3110
6	.2120	.0970	15.8150	.2110	.0950	18.3110
7	.2170	.0970	15.8190	.2110	.0950	18.3110
8	.2120	.0970	15.4190	.2110	.0950	18.3110
11	.2170	.0930	-17.0770	.2140	.1000	18.5140
12	.2140	.0970	-17,2330	.2160	-1040	18,6840
13	.2140	.0990	16.2290	.2120	.0960	18.3260
14	.2130	.0950	-17.0260	.2130	.0980	18.4510
15	.2170	.0950	-17.0300	.2130	.0980	18.4510
17	.2130	.0950	-16.8990	.2130	.0980	18.4510
18	.2130	.0950	-16.8990	.2130	.0980	18.4510

MODE S

UNIT	NREC CO FI	NREC HC E! LB/KLB FU	NRE CNO FI	NR CNOX EI LB/KLB FU	SMK NUMBER CORRECTED
1	-89.A2	93.97	2.30	7.80	18.82
5	103.30	102.28	2.27	3.02	19.92
3	100.65	97.34	2.42	3.34	18.43
4	104.19	98.96	2.05	3.27	18.91
5	102.84	113.35	2.75	3.53	21.22
6	100.40	95.69	2.5A	3.41	18.23
7	99.71	105.68	2.41	3.22	19.22
9	99.59	115.07	5.20	3.29	24.90
11	99.15	85.39	2.25	3.41	22.94
12	107.50	117.88	2.11	3.13	20.85
13	-80.05	-45.52	-3.24	1.55	-5.65
14	102.26	101.69	2.14	3.46	-0.00
15	103.61	97.60	2.06	3.08	20.31
17	106.24	105.06	2.69	3.41	21.71
18	98.75	98.60	2.19	3.43	21.71

MODE 3

		- The Control of the Control	PER CENT
		PER CENT	SEN CEIGI
99.50	100.50	-99.89	100.49
101.00	101.00	101.39	101.39
101.00	101.00	101.39	101-39
101.00	101.00	101.39	101.39
101.00	101.00	100.83	100.83
101.50	100.50	101.33	100.33
101,50	-104.00	101.33	103.83
100.50	102.00	100.33	101.83
. 99.80	101.00	100.58	101.79
99,90	101.00	100.6A	101.79
101.00	103.00	100.90	102.90
101.50	101.50	101.99	161.99
101.00	100.00	101.49	100-49
101.00	-99.00	101.49	-99.48
101.50	103.00	101.99	103.50
	101.00 101.00 101.00 101.50 101.50 100.50 99.80 99.90 101.00 101.50	PER CENT PER CENT  99.50 100.50  101.00 101.00  101.00 101.00  101.00 101.00  101.50 100.50  101.50 -104.00  100.50 102.00  99.80 101.00  99.90 101.00  101.50 103.00  101.50 100.00  101.00 100.00	PER CENT PER CENT PER CENT  99.50 100.50 -99.89  101.00 101.00 101.39  101.00 101.00 101.39  101.00 101.00 100.83  101.50 100.50 101.33  101.50 -104.00 101.33  100.50 102.00 100.33  99.80 101.00 100.58  99.90 101.00 100.68  101.00 103.00 100.90  101.50 101.50 101.99  101.00 100.00 101.49

MODE 3

UNIT	FUFL FLOW LAM/HR	CR F/4 X100	PERF F/A	TT7 DEG R	FPR	THRUST
1	-9640.	1.6220	1.3990	1392.	-1.810	-17980.
5	10060.	1.5900	1.4560	1437.	1.840	19417.
3	9920.	1.6110	1.4710	1392.	-1.A30	-18271.
4	10220.	1.5980	1.4930	1464.	1.840	18417.
5	9670.	1.5850	1.3940	1428.	1.840	14411.
6	9950.	1.5980	1.4350	1424.	1.840	19411.
7	9850.	1.5400	1.4110	1410.	1.840	18405.
8	9850.	1.6220	1.3920	1374.	1.840	18405.
11	9790.	1.5370	1.7940	1428.	1.850	18458.
12	98nn.	1.5070	1.3790	1392.	1.850	1945A.
13	9820.	1.5270	1.3660	1374.	1.850	18373.
14	9970.	1.5280	1.3840	1356.	1.950	18452.
15	9970.	1.5140	1.4290	1446.	1.850	18446.
17	10150.	1.5620	1.4480	1437.	1.850	19415.
18	10130.	1.6480	1.4320	1428.	1.860	18538.

MODE 3

UNIT	CORR FU FL LBM/HR	COR CB F/A X100	COR PF F/A X100	CORR TT7 COR	THRUST
1	-9622.	1.6340	1.4100	1403.	-18016.
2	10041.	1.5920	1.4670	1448.	18454.
3	9901.	1.6230	1.4330	1403.	-18308.
4	10201.	1.6110	-1.5040	- 1475.	18454.
5	9709.	1.5800	1.3900	1423.	18454.
6	9990.	1.5930	1.4300	1423.	18454.
7	9893.	1.5350	1.4060	1405.	18454.
8	9893.	1.6160	1.3880	1369.	18454.
11	9779.	1.5610	1.4160	1450.	18600.
15	9799.	1.5310	1.4010	1414.	18600.
13	9951.	1.5240	1.3640	1371.	18600.
14	10001.	1.5430	1.3980	1369.	18600.
15	10005.	1.5280	1.4430	1460.	18600.
17	10202.	1.5770	1.4620	1451.	18600•
18	10182.	1.6640	1.4460	1442.	18724.
18	10182.	1.6640	1.4460	1442.	18724.

MODE 3

UNIT	CO2 CONC PER CENT.	CO CONC	HC CONC	NO CONC	NOX CONC
1	3.425	-2A.0	2.6	A1.A	80.5
5	3.335	24.3	4.4	A9.4	88.2
3	3.401	25.5	6.4	88.2	S.88
4	3.376	25.0	3.1	87.6	87.9
5	3.349	23.4	2.8	95.5	97.3
6	3.374	25.3	. 4.7	96.1	97.4
7	3.250	24.6	2.2	91.7	93,5
A	3.425	27.1	5.1	90.9	92.3
11	3.240	22.2	3.1	94.2	91.4
12	3.176	-28.9	7.2	93.3	87.0
13	3.219	19.7	3.1	-185.0	-184.5
14	. 3.191	27.0	-106.7	104.7	102.7
15	3.199	-33.5	7.7	94.1	90.2
17	3.292	-2R.1	15.1	98,9	96.6
18	3.480	24.1	7.2	110.9	107.4

MODE 3

UNIT	CO2 ET	CO EI LB/KLB FU	HC ET LR/KLR FU	NO EI LB/KLR FU	NOX EI LR/KLB FU	SMK NUMBER FRONT STOE
1	3155.	1.64	.26	-7.88	-7.89	55.25
2	3155.	1.47	•46	8.84	8.84	52.10
3	3154.	1.50	.64	8.55	8.55	54.90
4	3155.	1.49	.32	8.56	8.59	60.89
5	3155.	1.40	.29	9.41	9.58	51.20
6	3154.	1.51	.48	9.39	9.52	47.49
7	3155.	1.52	.23	9.30	9.49	51.26
8	3154.	1.59	•52	8.75	8.89	50.92
11	3151.	1.38	•33	9.58	9.58	56.21
12	3151.	-1.83	.7A	9.68	9.68	50.79
13	3151.	1.23	.33	-18.93	-18.93	-22.70
14	-3122.	-1.68	-11.41	10.71	10.71	-0.00
15	3150.	-2.11	.84	9.71	9.71	48.68
17	3149.	-1.71	1.58	9.89	9.89	54.07
18	3152.	1.39	.72	10.50	10.50	49.74

MODE 3

UNIT	FC0 X100	FHC X100	FN9 X100	STD FCO X100	STD FHC X100	STD FNO X100
1	81.5570	69.2310	78.6110	A7.2140	73.7560	92.9950
2	79.1700	76.3650	80.4820	84.5090	A1.3940	95.2190
3	84.2000	76.3650	80.4820	90.0300	A1.3940	95.2190
4	A2.1430	76.3650	80.4820	A7.7710	81.3940	95.2190
5	79.9690	75.3720	An.3090	77.7560	72.8930	92.7330
6	77.7260	68.2720	78.4250	75.5700	56.0400	90.5420
7	97.4370	128.5120	91.2600	94.7040	124.0690	105.3270
8	95.7510	91.7420	84.1900	92.9760	AR.6350	97.1830
11	73.3100	77.8590	88.3580	82.9010	87.9410	97.0000
12	69,3280	77.8590	88.3580	78.1670	A7.9410	97.0000
13	R8.64R0	113.4350	90.5890	86.6030	109.0610	102.1290
14	75.9610	A5.2790	89.6560	A1.A340	91.5140	97.9300
15	63.2250	63.6070	83.5740	67.9210	68.0950	91.2310
17	52.2860	52.2740	79.0560	66.9540	55.7300	86.9440
18	113.1750	114.1890	-95.3410	-122.9680	122.3180	104.9706

MODE 3

UNIT	NREC CO EI LB/KLR FU		NRE CNO ET	The state of the s	SMK NUMBER CORRECTED
1	1.54	.24	-10.01	-10.01	55.25
2.	1.37	.43	11.23	11.23	52.10
3	1.41	.60	10.86	10.87	54.90
4	1.39	.30	10.88	10.92	60.89
5	1.44	.30	11.67	11.89	51.20
6	1.55	.50	11,65	11.81	47.49
7	1.56	.24	11.53	11.76	51.26
8	-1.64	•53	10.85	11.02	50.92
iı	1.22	.29	11.29	11.29	56.21
12	-1.62	.69	11.41	11.41	50.79
13	1.26	.35	-21.34	-21.34	-22.70
14	1.56	-10.64	12.57	12.57	-0.00
15	-1.96	.78	11.39	11.39	48.69
17	-1.59	1.49	11.68	11.68	54.07
18	1.28	.67	11.57	11.57	49.74

MODF 4

UNIT	N. SPEED PER CENT	N2 SPEED PER CENT	CORP NI PER CENT	CORR NZ
	••••••		SCH CENT	
1	95.50	98.50	95.87	98.88
2	96.00	99.00	96.37	99.38
3	96.00	99.00	96.37	99.38
4	95.00	99.00	95.37	99.38
5	96.00	99.00	95.84	98.83
6	96.50	98.70	96.34	98.53
7	96.50	-101.50	96.34	-101.33
8	95.00	99.50	-94.84	99.33
11	95.10	99.50	95.84	100.28
12	95.20	99.00	95.94	99.77
13	96.00	100.50	95.91	100.40
14	96.50	100.00	96.97	100.49
15	96.00	98.00	96.47	98.48
17	96.00	98.00	96.47	98.48
18	96.00	100.00	96.47	100.49

MODE 4

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LAF
1	8360.	-1.4870	1.3140	1320.	1.660	15794.
5	8420.	1.4200	1.3520	1356.	-1.650	15649.
3	8310.	1.4500	1.3160	1320.	-1.650	15649.
4	8290.	1.4080	1.3400	1374.	-1.650	15649.
5	8110.	1.4320	1.2970	1347.	-1.650	15643.
6	8240.	1.4280	1.3790	1329.	-1.650	15643.
. 7	8250.	1.3830	1.3150	1338.	-1,650	15638.
8	-7970.	1.4350	1.2530	1302.	-1.650	15638.
11	8350.	1.3990	1.3140	1338.	1,660	15705.
12	8230.	1.3780	1.2860	1320.	1.660	15705.
13	8090.	1.3570	1.2500	1302.	1.660	15633.
14	8230.	1.3750	1.2680	1284.	1.660	15700.
15	8470.	1.3790	1.3410	1356.	1,660	15695.
17	8500.	1.4180	1.3430	1356.	1.660	15669.
18	8400.	1.4750	1.3190	1338.	1.660	15669.

MODE 4

UNIT	CORR FIJ FL LRM/HR	COR CR F/A CO		R TTT COR	THRUST LBF
1	8344.	-1.4990	1.3240	1330.	15826.
. 2	8404.	1.4310	1.3620	1366.	-156h ·
3	8294.	1.4610	1.3270	1330.	-15.,90.
4	8275.	1.4190	1.3500	1384.	-1' 70.
5	8147.	1.4270	1.2930	1342.	-15680.
6	8273.	1.4230	1.3050	1324.	-15680.
7	9286.	1.3790	1.3100	1333.	-15680.
9	-8005.	1.4300	1.2490	1297.	-15680.
11	8349.	1.4210	1.3340	1359.	15826.
12	8229.	1.4000	1.3060	1340.	15926.
13	8198.	1.3550	1.2470	1299.	15A26.
14	8256.	1.3880	1.2800	1296.	15826.
15	8500.	1.3920	1.3540	1369.	15826.
17	8544.	1.4370	1.3560	1369.	15A26.
19	8443.	-1.4890	1.3310	1351.	15826.

MODE 4

UNIT	COZ CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	-3.137	-34.9	1.8	67.9	69.2
2	2.992	29.9	5.0	71.7	72.9
3	3.056	30.9	2.9	70.3	73.2
4	2.968	32.5	1.4	66.2	69.8
5	3.018	28.9	1.6	76.A	80.9
6	3.010	31.5	2.2	75.2	79.0
7	2.914	31.1	1.2	71.1	75.4
8	3.024	32.3	2.0	69.5	73,1
11	2.945	27.9	1.8	76.A	77.7
12	2.901	-37.8	3.0	76.0	74.0
13	2.856	20.6	1.7	-135.5	-136.7
14	2.890	27.6	-14.6	83.0	83.6
15	2.901	-35.5	6.2	76.4	76.1
17	2.985	33.6	5.6	78.9	80.3
18	3.109	26.3	2.6	84.9	85.1

MODF 4

UNIT	CO2 ET	CO EI LB/KLR FU	HC ET LR/KLR FU	NO FI L9/KLR FU	NOX EI LR/KLB FU	SHK NUMBER FRONT SIDE
1	3154.	5.23	.20	7.14	7.27	51.63
5	3154.	2.01	. 23	7.90	8.03	50.91
. 3	3154.	2.03	.13	7.59	7.89	52.03
4	3154.	5.50	.16	7.36	7.76	53.06
5	3155.	1.92	•1A	8.39	A.84	51.25
6	3154.	2.10	.26	8.24	8.66	49.87
7	3154.	2.15	.14	A,04	8.53	50.68
8	3154.	2.14	.27	7.58	7.97	51.75
11	3150.	1.90	•21	A.59	8.69	-64.64
12	3151.	-2.61	.76	A.63	8.63	50.47
13	3151.	1.45	.21	-15.62	-15.76	-23.27
14	3148.	1.92	-1.74	9.45	9.52	50.06
15	3150.	-2.45	.74	R.67	8.67	48.80
17-	3151.	2.26	.64	A.71	A.86	52.00
18	3152.	1.70	.2R	9.00	9.02	. 51.18

HODE 4

UNIT	FC0 X100	FHC X100	FN0 X100	STO FCO X100	STD FHC	STD FNO
1	51.2400	46.4500	71.4740	54.3220	49.3920	84.4560
2	48.1110	51.3780	73.1780	50.8740	54.65A0	86,5390
3	50.6260	51.3780	73.1780	53.6030	54.65R0	84.5390
4	47.2030	51.3780	73-1780	49.8890	54.65A0	86,5390
5	48.9060	50.5290	72.9530	47.7120	49.9080	84.2560
6	47.0980	47.5400	71.4900	45.9560	46.0200	83.0310
7	58.2690	-83.2060	82.2420	56,8290	-80.4050	-94.9400
8	51.8130	55.9350	74.7640	50.5250	54.0960	86.3740
11	49.2870	58.0040	82.3340	54.11960	65.3280	90.3270
12	45.2740	52.5120	80.3900	50.2990	59.0860	AR.1740
13	50.8660	69.6400	80.5950	49.7870	66.9950	90.8750
14	49.7370	63.5690	-83.5570	53.0330	68.0950	91.2310
15	40.7890	42.5820	75.8880	43.4040	45.47A0	82.7950
17	43.5000	42.7090	75.3040	46.3230	45.4780	82.7950
18	59.0560	63.7970	82.9310	-63.2190	68.0950	91.2310

MODE 4

		and the second second second second			
TIPU	NREC CO EI	NREC HC EI		NR CNOX ET	SMK NUMBER CORRECTED
	******				
. 1	2.10	.19	9.06	9.23	51.63
5	1.90	•55	10.03	10.20	50.91
3	. 1.91	.31	9,63	10.03	52.03
4	2.08	.15	9.34	9.86	53.05
5	1.97	.19	10.41	10.96	51.25
6	2.16	.26	10.22	10.74	49.87
7	-5.50	.15	9.97	10.57	50.68
A	-5.50	.24	9.40	9.88	51.75
11	1.70	.19	10.12	10.23	-64.64
12	-2, 15	,32	10.16	10.16	50.47
13	1.48	•55	-17.61	-17.77	-23.27
14	1.90	-1.62	11.0A	11.15	50.06
15	-2.30	.69	10.16	10.16	48.80
17	2.12	.60	10.28	10.47	52.00
18	1.58	.26	10.63	10.66	51.18

#### MODE 5

TIMU	NI SPEED	NZ SPEED	CORR NI	CORR N2
	PER CENT	PER CENT	PER CENT	PER CENT
1	86.00	94.00	86.33	94.36
2	86.00	94.00	86.33	94.36
3 .	85.00	94.50	86.33	94.87
. 4	65.00	94.00	A5.33	94.36
5	87.00	94.50	86.85	94.34
6	86.50	94.10	A6.35	93.94
7	86.00	96.00	85.86	95.84
8	85.00	95.00	-84.86	94.84
11	- 65.50	95.00	86.17	95.74
12	85.00	95.00	85.66	95.74
13	85.50	95.50	85:42	95.41
14	86.50	95.00	A6.92	95.46
15	85.50	93,50	A5.92	93.95
17	86.00	93.50	86.42	93.95
18	86.00	95.00	86.42	95.46

MODE 5

UNIT	FUEL FLOW LAM/HR	CB F/A X100	PERF F/A	TT7 DEG R	EPR	THRUST LRF
1	5900.	-1.2530	1.1820	1248.	1.390	10946.
2	5810.	1.1970	1.1630	1249.	1.390	10946.
3	5910.	1.2030	1.1670	1212.	1.390	10946.
4	5780.	1.1800	1.1570	1248.	1.390	10946.
5	5880.	1.2240	1.1690	1230.	1.390	10942.
6	5840.	1.2070	1.1520	1212.	1.390	10942.
7	5520.	1.1550	1.0810	1194.	1.390	10938.
A	5580.	1.1950	1.0970	1203.	1.390	10938.
11	SANN.	1.1690	1.1380	1212.	1.390	10884.
12	5680.	1.1540	1.1070	1194.	1.390	10884.
13	5500.	-1.1150	1.0670	1194.	1.390	10834.
14	5640.	1.1640	1.0980	1194.	1.390	10880.
15	5720.	1.1760	1.1300	1230.	1.390	10877.
17	5830.	1.1950	1.1460	1221.	1.390	10859.
18	5690.	1.2180	1.1140	1212.	1.390	10859.

#### MODE 5

UNIT	CORR FU FL LBM/HR	COR CB F/A C	OR PF F/A C	ORR TT7 COR	THRUST LBF
1	5889.	-1.2620	1.1910	1257.	1096A.
2	5799.	1.2070	1.1730	1257.	10968.
3	5899.	1.2130	1.1760	1221.	10968.
4	5769.	1.1890	1.1660	1257.	10968.
5	5904.	1.2200	1.1650	1226.	10968.
6	5864.	1.2030	1.1480	1208.	10968.
7	5544.	1.1510	1.0770	1190.	10968.
8	5604.	1.1910	1.0930	1199.	10968.
11	5799.	1.1870	1.1560	1231.	10968.
12	5679.	1.1720	1.1240	1212.	10968.
13	5573.	-1.1130	1.0640	1191.	10968.
14	5658.	1.1750	1.1090	1205.	10968.
15	5740.	1.1870	1.1410	1242.	10968.
17	5860.	1.2070	1.1570	1233.	10968.
18	5719.	1.2300	1.1250	1223.	10958

MODE 5

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	-2.631	75.3	2.2	44.2	49.0
2	2.514	66.4	1.9	45.1	51.0
3	2.526	68.1	2.2	44.5	51.4
. 4	2.478	64.3	1.9	41.3	49.0
5	2.570	59.3	1.8	51.1	57.A
6	2.534	67.5	2.1	48.4	55.4
7	2.472	69.6	1.9	43.3	50.7
8	2.510	57.6	1.9	44.0	51.6
11	2.451	54.9	1.8	48.3	53.8
15	2.417	-84.5	3.4	45.2	51.2
13	-2.340	-25.5	1.6	-71.7	-74.3
14	2.441	55.6	5.4	52.5	58.8
15	2.465	75.0	2.0	47.9	53.4
17	. 2.506	68.9	3.5	50.9	57.2
18	2.558	52.2	2.0	52.3	59.0

MODE 5

CO2 EI	CO EI	HC EI	NO EI LB/KLB FU	NOX EI LB/KLB FU	SMK NIJMRER FRONT SIDE
3148.	5.74	.29	5.54	6.13	51.17
3149.	5,29	• 26	5.90	6.67	51.05
3149.	5.40	•31	5.81	6.71	51.16
3149.	5,20	.25	5.49	6.51	51.95
3150.	4.63	.24	6.54	7.41	50.80
3149.	5,34	.29	6.29	7.19	50.20
3148.	5.76	.27	5.88	6.89	52.77
3150.	4.60	•26	5.77	6.78	52.82
3146.	4,48	.25	6.48	7.22	54.49
3144.	-6,99	.48	6.14	6.96	50.59
3150.	-2.18	.23	-10.09	-10.45	-16.76
3147.	4,56	.75	7.08	7.93	50.32
3146.	6.09	.29	6.39	7.13	49.01
3146.	5.50	.49	6.69	7.50	53.34
3149.	4.09	.27	6.73	7.59	52.29
	3148. 3149. 3149. 3149. 3149. 3149. 3149. 3148. 3150. 3146. 3146. 3146.	3148. 5.74 3149. 5.29 3149. 5.20 3149. 5.20 3150. 4.63 3149. 5.34 3148. 5.76 3150. 4.60 3146. 4.48 31446.99 31502.18 3147. 4.56 3146. 6.09 3146. 5.50	3148. 5.74 .29 3149. 5.29 .26 3149. 5.20 .25 3150. 4.63 .24 3149. 5.34 .29 3148. 5.76 .27 3150. 4.60 .26 3146. 4.48 .25 3147. 4.56 .75 3146. 6.09 .29 3146. 5.50 .49	3148. 5.74 .29 5.54 3149. 5.29 .26 5.90 3149. 5.40 .31 5.81 3149. 5.20 .25 5.49 3150. 4.63 .24 6.54 3149. 5.34 .29 6.29 3148. 5.76 .27 5.88 3150. 4.60 .26 5.77 3146. 4.48 .25 6.48 31502.18 .23 -10.09 3147. 4.56 .75 7.08 3146. 6.09 .29 6.39 3146. 5.50 .49 6.69	3148. 5.74 .29 5.54 6.13 3149. 5.29 .26 5.90 6.67 3149. 5.40 .31 5.81 6.71 3149. 5.20 .25 5.49 6.51 3150. 4.63 .24 6.54 7.41 3149. 5.34 .29 6.29 7.19 3148. 5.76 .27 5.88 6.89 3150. 4.60 .26 5.77 6.78 3146. 4.48 .25 6.48 7.22 31446.99 .48 6.14 6.96 31502.18 .23 -10.09 -10.45 3147. 4.56 .75 7.08 7.93 3146. 6.09 .29 6.39 7.13 3146. 5.50 .49 6.69 7.50

MODE 5

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO X100	STO FHC X100	STD FNO X100
1	21.8020	17.3060	56.0840	22.8250	18.3270	66.2540
2	20.2470	17.3060	56.0840	21.1600	18.3270	66.2540
3	21.5630	19.4300	57.7080	22.5480	20.5860	68.1790
4	19.8000	17.3060	56.0840	20.6830	18.3270	66.2540
5	21.9160	18.7980	57.2650	21.4690	18,2270	66.1640
6	20.4970	17.1130	55.9530	20.0850	16,5960	64.6510
7	23,5570	26.5020	62.3210	23.0800	25.6660	71.9800
A	22.3030	21.1200	58.9370	21.8470	20.4620	68.0780
11	22.0230	22.4830	-65.3870	23.9770	25.1120	71.5950
12	21.5950	22.4830	-65,3870	23.4890	25.1120	71.5950
13	21.4040	24.1870	62.3190	20.9980	23.2950	70.2950
14	21.7620	22.1360	64.6510	22.8890	23.5770	70.4930
15	18.7500	15.6630	59.3710	19.7020	16.6440	64.6470
17	19.2390	15.7100	58.9140	20.2040	16.6440	64.6970
19	23.4210	22.2160	64.1670	24.6490	23.5770	70.4930

MODE 5

UNIT	NREC CO ET	HPEC HC EI	NRE CNO EI		SMK NUMBER CORRECTED
				*******	
1	5.48	.28	7.02	7.78	51.17
5 .	5.06	.24	7.49	8.47	51.05
3	.5.16	.29	7.37	8.51	51.16
4 .	4.98	.24	6.96	8.26	51.95
5	4.72	.25	8.12	9.19	50.80
6	5.44	.30	7.81	8.92	50.20
7.	5.88	.28	7.29	8.54	52.77
	4.70	.27	7.16	8.41	52.82
11	4.12	•22	7.63	8.49	54.49
12	-6.43	.43	7.22	8.19	50.59
13	-2.23	.24	-12.23	-12.66	-16.76
14	.4.34	.71	8.29	9.29	50.32
15	5.80	.27	7.48	8.34	49.01
17	5.24	.46	7.88	8.85	53.34
18	3.48	.25	7.94	8,95	52.29

MODE 6

UNIT	NI SPEED PER CENT	NE SPEED PER CENT	CORR NI PER CENT	CORR NZ
				******
1 .	69.00	86.50	69.27	86.84
5	70.00	87.00	70.27	87.34
3	69.50	87.00	69.77	87.34
4	-66.50	85.50	-66.76	A5.A3
5	69.00	86.00	68.88	85.86
6	69.00	96.50	68.88	86.35
7	69.00	89.00	48.8R	87.85
A	68.00	98.00	67.89	87.85
11	70.00	87.50	70.55	88-18
15	69.90	88.00	70.45	88.69
13	68.50	87.50	68.43	87.42
14	69.00	87.00	69.33	87.42
15	67.50	-85.00	67.83	85.41
17	69.50	86.00	69.84	86.42
18	70.00	88.00	70.34	88.43

MODE 6

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TTT DEG R	EPR	THRUST LRF
1	3340.	-1.0480	.9590	1104.	1.170	5624.
2	3420.	.9730	.9860	1113.	1.170	5624.
3	3400.	.9640	.9770	1104.	1.170	5624.
4	3150.	.9280	.9120	1122.	1.170	5624.
5	3210.	.9740	.9290	1122.	1.170	5622.
6	3250.	•9690	.9260	1086.	1,170	5622.
7	3150.	.9390	.8970	1086.	1,170	5620.
8	3150.	.9270	.9040	1104.	1.170	5620.
11	3360.	.9320	.9520	1086.	1,170	5592.
12	3380.	.9390	.9580	1086.	1.170	5592.
13	3080.	•9000	.8690	1086.	1,170	-5566.
14	3150.	.9140	.8850	1068.	1.170	5590.
15	3190.	•9750	.9110	1104.	1.170	5588.
17	3390.	.9390	.9660	1104.	1.170	5579.
18	3360.	•9600	.9610	1113.	1.170	5579.

MODE 6

UNIT	CORR FU FL	COR CR F/A C	COR PF F/A (	CORR TT7 COR	THRUST LBF
1	3334.	-1.0560	.9670	1112.	5635.
5	3414.	.9810	.9940	1121,	5635.
3	. 3394.	.9720	.9840	1112.	5635.
. 4	3144.	.9360	.9190	1130.	5635.
5	3221.	.9710	.9260	1118.	5635•
6	3263.	.9650	.9230	1082.	5535.
7	3164.	.9350	.5940	1092.	5635•
8	3164.	.9240	.9010	1100.	5635.
11	3360.	.9470	.9670	1103.	5635.
12	3380.	•9540	.9730	1103.	5635.
13	3121.	.8990	.8670	1084.	5635.
14	3160.	.9230	.8940	1078.	5635•
15	3201.	.9850	.9190	1114.	5635.
17	3407.	.9480	.9760	1114.	5635.
18	3377.	•9690	.9710	1124.	5635.

MODE 6

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	-2.181	156.2	13.1	30.7	31.5
2	2.019	203.2	15.4	29.1	31.5
3	2.103	173.2	13.9	27.7	31.9
4	1.921	210.3	22.8	21.2	29.2
5	2,022	192.7	15.6	31.0	34.2
6	2.010	199.8	16.0	29.0	33.0
7	1.951	166.0	11.5	27.2	32.0
8	1.928	147.7	9.R	22.9	30.9
11	1.936	150.7	10.5	27.4	33.5
12	1.947	187.8	17.3	25.7	33.7
13	1.001	-60.9	-2.9	-35.9	-38.8
14	1.895	176.0	16.5	26.7	34.3
15	2.020	209.1	18.6	25.7	33.5
17	1.946	194.7	15.7	29.3	35.7
18	1.994	165.6	13.8	27.3	36.1

MODE 6

UNIT	COS ET	CO EI	HC FT	NO EI LAZKLA FU	LANKLA FU	SMK NUMBER FRONT STOE
			*******	*********		********
1	3124.	16.98	2.05	4.60	4.72	43.57
2	3120.	19.99	2.60	4.71	5.09	42.76
3	3124.	17,39	2.37	4.52	5.21	45.10
4	3113.	21.59	4.05	3.59	4.95	43.48
5	3121.	18,93	2.63	5.00	5.52	42.33
6	3120.	19.74	2.72	4.71	5.35	41.45
7	3126.	16,93	2.02	4.55	5.36	44.75
8	3129.	15.26	1.73	3.68	5.24	47.40
11	3174.	15.48	1.85	4.62	5.66	48.83
12	3117.	19.14	3.03	4.31	5.63	41.45
13	-3147.	-6.47	52	-6.27	-6.78	-10.13
14	3119.	18.43	2.96	4.60	5.90	46.31
15	3115.	20.52	3.14	4.14	5.39	42.33
17	3117.	19.85	2.75	4.91	5.98	46.32
18	3123.	16,51	2.36	4.47	5.92	45.92

MODE 6

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X100
1	7.4640	3.0530	36.6800	7.7330	3.2110	43.2610
2	7.3000	3.4280	37.7280	7.5520	3.6070	44.5020
3	7.2350	3.4280	37.7280	7.4840	3.6070	44.5020
4	5.9410	2.4110	34,6290	6.1350	2.5330	40.8320
5	6.4660	2.6180	35,3610	6.3640	2.5480	40.8890
6	6.7960	2.9490	36.4000	6,6870	2.8680	42.0990
7	7.7520	4.1760	39.6190	7,6250	4.0570	45.7930
8	7.6620	4.1760	39.6190	7.5370	4.0570	45,7930
11	7.4970	3.9820	-42.7640	7.9930	4.3860	46.6740
12	7.9830	4.4990	-44.0700	=8.5180	-4,9610	48,1090
13	7.1470	3.8060	39.6140	7.0260	3.6720	44.6970
14	6.9390	3.4850	41.0970	7.1990	3.67R0	44.7140
15	5.9180	2.1770	35.6440	6.1390	2.2900	39,8390
17	6.3910	2.7720	38.5440	6.6200	2.9110	42.2410
18	8.0980	4.4240	-43.1980	8,4050	4.6570	47.3680

MODE 6

UNIT	NREC CO FI LB/KLR FU	NREC HC EI	NRE CNO ET	NR CNOX EI	SMK NUMBER CORRECTED
1	16.39	1.95	5.42	5.98	43.57
5	19.32	2.47	5.96	4.45	42.75
3	14.92	2.25	5.73	4.59	45.10
4	21.01	3,85	4.55	6.27	43.4R
5	19.24	2.70	6.21	6.85	42.33
6	20.06	2.80	5.45	4.65	41.45
7	17.21	2.08	5.45	6.66	44.75
A	15.51	1.78	4.82	6.51	47.40
11	14.52	1.69	5.41	6.63	48.83
12	17.94	2.75	5.05	6.61	41.45
13	-6.5A	54	-7.60	-8.22	-10.13
14	17.76	2.81	5.37	6.89	46.31
15	19.78	2.98	4.94	6.30	. 42.33
17	19.16	5.65	5.77	7,04	46.32
18	15.90	2.24	5.26	6.97	45.92

MODE 7

NI SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR N2 PER CENT
36.00	64.00	36.14	64.25
36.50	64.00	36.64	64.25.
36.50	-64.50	36.64	64.75
36.00	64.00	36.14	64.25
36.50	64.00	36.44	63.89
35.00	64.00	34.94	63.89
35.00	64.00	34.94	63-89
-34.00	64.00	-33.94	63.89
. 35.00	64.00	35.27	64.50
35.10	-64.50	35.37	-65.00
36.00	64.00	35.97	63.94
35.50	64.00	35.67	64.31
36.50	64.00	36.68	64.31
35.50	64.00	35.67	64.31
36.00	64.00	36.17	64.31
	36.00 36.50 36.50 36.50 35.00 35.00 35.00 35.00 35.10 36.00 35.50	PER CENT PER CENT  36.00 64.00  36.50 64.00  36.50 64.00  36.50 64.00  35.00 64.00  35.00 64.00  35.00 64.00  35.00 64.00  35.00 64.00  35.50 64.00  36.50 64.00  36.50 64.00	PER CENT         PER CENT         PER CENT           36.00         64.00         36.14           36.50         64.00         36.64           36.50         -64.50         36.64           36.50         64.00         36.14           36.50         64.00         36.44           35.00         64.00         34.94           -34.00         64.00         35.27           35.10         -64.50         35.37           36.00         64.00         35.97           35.50         64.00         35.67           36.50         64.00         36.68           35.50         64.00         35.67

HODE 7

UNIT	FUEL FLOW LBM/HR	CR F/A X100	PERF F/4 X100	TT7 DFG R	EPR	THRUST LAF
1	1280.	8720	.7990	1032.	1.030	1322.
5	1390.	.7940	.8680	1050.	1.030	1322.
3	1340.	.8150	.8490	1072.	1.030	1358.
4	-1400.	.7930	8880	1064.	1.030	1322.
5	1310.	.8110	.8240	1050.	1.020	1296.
6	1330.	.8260	.A300	1032.	1.020	1296.
7	1190.	.7950	.7420	1032.	1.030	1296.
8	1190.	.7700	.7410	1030.	1.030	1296.
11	1280.	•7570	.7810	996.	1.050	1333.
12	1260.	.7630	.7640	1014.	1.020	=1368.
13	1230.	7100	.7530	1014.	1.020	1287.
14	1240.	.7280	.7560	996.	1.040	1319.
15	1340.	.8230	.8420	1061.	1.035	1318.
17	1350.	.8100	.8790	1041.	1.030	1316.
18	1270.	.7890	.7860	1032.	1.055	1316.

MODE 7

UNIT	CORR FU FL LBM/HR	COR CB F/A	COR PF F/A	CORR TT7 COR	THRUST LBF
1	1278.	8790	.8050	1040.	1325.
S	1377.	.8010	.8750	1058.	1325.
3	1377.	.8220	.A550	1040.	1361.
4	1397.	.7990	8950	-1076.	1325•
5	1315.	.8080	.8210	1046.	1299•
6	1335.	.8240	.8270	1028.	1299.
7	1195.	.7820	.7400	1028.	1299.
8	1195.	.7670	.7390	1026.	1299.
11	1280.	.7690	.7930	1011.	1343.
12	1260.	.7750	.7760	1030.	-1379.
13	1246.	7090	.7520	1012.	1303.
14	1244.	•7350	.7630	1005.	1329.
15	1345.	.8310	.8500	-1071.	1329.
17	1357.	.8180	.8470	1051.	1329.
18	1277.	•7960	.7940	1042.	1329.

MODE 7

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	-1.591	844.4	497.3	12.3	13,6
. 5	1.444	841.2	444.9	11.3	12.9
3	1.483	851.6	461.7	11.3	13.9
. 4	1.437	855.7	453.5	9.0	13.3
5	1.458	870.1	501.2	12.4	14.8
6	1.495	986.3	483.3	11.4	14.4
. 7	1.426	914.1	449.6	11.4	13.6
A	1.399	766.7	445.9	9.9	13.6
11	1.381	. 779.8	405.6	10.2	14.5
12	1.350	848.7	527.2	9.2	13.7
13	1.375	-612.2	-159.7	13.3	14.1
14	-1.322	769.8	407.8	10.1	14.9
15	1.493	A83.5	465.6	10.6	15,1
17	1.455	909.4	494.4	12.1	16.0
18	1.454	769.2	394.5	10.7	16.3

MODE 7

UNIT	CO2 EI LB/KLB FU	CO EI LB/KLB FU	HC EI LB/KLB FU	NO EI	NOX EI LB/KLB FU	SMK NUMBER FRONT STDE
1	2754.	93.01	94.10	2.23	2.45	17.31
2	2745.	101.73	92.42	2.24	2.55	18.55
3	2744.	100.32	93.43	2.18	2.69	19.74
4	2736.	103.68	94.39	1.80	2.64	19.07
5	2716.	103.15	102.08	2.42	2.89	19.22
6	2731.	103.03	96.53	2.26	2.75	17.65
7	2742.	99.67	94.55	2.29	2.73	19.97
8	2745.	95.74	95.65	2.03	2.80	23.51
11	2755.	99.00	BR.46	2.12	3.02	22.56
12	-2675,	106,97	-114.17	1.91	2.83	17.60
13	-2922.	-82.77	-37.08	-2.95	3.12	-6.68
14	2742.	101.61	92.47	2.18	3.23	50.31
15	2734.	103.10	93.34	2.04	2.89	19.55
. 17	2710.	107.84	100.72	2.35	3.12	21.50
18	2782.	93.69	82.54	2.15	3.26	21.32

MODE 7

UNIT	FC0 x100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X100
1	.2120	.0940	15.6740	.2130	.0980	18.4300
2	.2120	.0940	15.6740	.2130	.0980	18.4300
3	.2140	.0980	15.8170	.2150	.1020	18.5990
4	.2120	.0940	15.6740	.2130	.09A0	18.4300
5	.2120	.0970	15.8150	.2110	.0950	18.3110
6	.2120	.0970	15.8150	.2110	.0950	18.3110
7	.2120	.0970	15.4190	.2110	.0950	18.3110
А	.2120	.0970	15.4190	.2110	.0950	18.3110
11	.2120	.0930	-17.0770	.2140	.1000	18.5140
12	.2140	.0970	-17.2330	2160	1040	-18,6940
13	.2140	.0990	16.2290	.2120	.0960	18.3260
14	.2130	.0950	-17.0260	.2130	.0980	18.4510
15	•2130	.0950	-17.0300	.2130	.0980	18.4510
17	•2130	•0950	-16.8990	.2130	.0980	18.4510
18	.2130	•0950	-16.8090	.2130	.0980	18.4510
•	,0	• • • • •	1176-7-40			1

HODE 7

UNIT	NREC CO EI LB/KLB FU	NREC HC EI LB/KLB FU	NRE CNO EI LB/KLB FIJ	NR CNOX EI LB/KLB FU	SMK NUMBER CORRECTED
1	92.55	90.66	2.82	3.10	17.31
2 .	101.22	89.04	2.83	3,23	18.55
3	99.82	90.00	2.76	3.40	19.74
4 .	103.16	90.94	2.27	3.33	19.07
5	103.62	104.36	3.00	3.59	19.22
6	103.50	98.68	2.81	3.42	17.65
7	100.15	96.72	2.84	3.39	19.97
8	96.20	97.84	2.53	3,48	23.51
11	98.29	82.63	2.47	3.51	22.56
12	106.20	106,60	5.55	3.29	17.60
13	-83.67	-38.30	-3.58	3.79	-6.68
14	101.40	89.14	2.54	3.76	20.31
15	102.91	90.03	2.37	3.36	19.55
17	107,78	97.43	2.76	3.66	21.50
18	93.63	79.85	2,52	3.82	21.32

MODE 8

UNIT	N1 SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR NZ PER CENT
1	33.00	60.50	33.13	60.73
2	33.00	60.00	33.13	60.23
3	33,50	60.50	33.63	60.73
4	33.00	60.50	33.13	60.73
5	34.00	60.50	33.94	60.40
6	33,50	61.10	33.44	61.00
7	32.50	60.50	32.45	60.40
A	33.00	61.80	32.94	61.70
11	33.00	61.00	33.26	61.48
12	32.30	60.50	32.55	60.97
13	33.00	60.50	32.97	60.44
14	33,50	61.50	33.66	61.80
15	34.00	61.00	34.17	61.30
17	33.00	60.00	33.16	60.29
18	34.00	61.00	34.17	61.30

MODE 8

UNIT	FUEL FLOW	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LAF
1	1220.	8990	.8540	1032.	1.030	1071.
2	1260.	.8210	.9030	1041.	1.020	1035.
3	1290.	.8390	.9040	1032.	1.020	1071.
4	1330.	.8210	9470	-1068.	1.020	1071.
5	1230.	.8340	.8680	1050.	1.020	1046.
6	1280.	.8480	.8770	1032.	1.020	1089.
. 7	1140.	.8120	.7980	1032.	1.030	1046.
8	1180.	.7900	.7880	1030.	1.030	1139.
11	1240.	.7920	.8330	996.	1.050	1118.
12	1150.	.7860	.7940	1014.	1.020	1082.
13	1130.	7260	.7770	1014.	1.020	1039.
14	1180.	.7720	.7720	-978.	1.030	1140.
15	1290.	.8410	.8890	1050.	1.030	1104.
17	1260.	.8380	.8920	1032.	1.020	1031.
18	1230.	.8110	.8390	1032.	-1.055	1102.

MODE 8

UNIT	CORR FU FL LRM/HR	COR CR F/A (	X100	CORR TT7 COR	THRUST LBF
1	1214.	9060	.8610	1040.	1073.
. 2	1254.	.8270	.9100	1049.	1037
3	128A.	.8450	.9110	1040.	1073.
4	1328.	.8280	9550	-1076.	1073.
5	1235.	.8320	.8660	1046.	1049.
6	1245.	.8450	8740	1029.	1092.
7	1145.	.8100	.7950	1028.	1049.
8	1185.	.7880	.7850	1026.	1142.
11	1240.	.8050	.8470	1011.	1126.
12	1150.	.7980	.8060	1030.	1090.
13	1145.	7250	.7750	1912.	1052.
14	. 1184.	.7790	.7800	-987.	1149.
15	1294.	.8490	.8980	1060.	1113.
17	1266.	.8460	.9010	1042.	1041.
18	1236.	.8190	.8470	1042.	1113.

MODE 8

UNIT	COZ CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	-1.599	935.0	628.0	11.4	12.7
2	1.443	950.3	592.0	10.5	12.2
3	1.492	953.9	590.9	10.3	13.1
4	1.447	952.1	584.1	8.9	12.6
5	1.461	950.4	629.1	11.7	14.2
6	1.507	951.9	573.2	11.2	13.9
7	1.442	896.9	557.0	10.8	13,1
8	1.419	819.9	507.6	9.1	13.4
11	1.417	861.8	502.3	9.4	13.8
12	1.345	944.2	-672.8	8.7	13.1
13	1.388	-671.6	-208.5	12.4	13.7
14	1.378	852.8	497.3	9.8	14.8
15	1.487	959.5	579.5	9.8	14.4
17	1.461	-1008.5	630.6	10.9	15.0
18	1.464	850.4	489.1	9.9	15.6

MODE 8

HINIT	COS EI	CO EI	HC EI	NO EI	NOX EI	SHK NIMBER
	LB/KLA FU	LB/KLA FU	LR/KLA FU	LB/KLB FU	LR/KLB FU	FRONT SIDE
		*********				
1	2685.	99.89	115.27	2.00	2.22	17.68
S	2656.	111.31	119.12	2.01	2.34	18.74
. 3	2667.	109.27	116.29	1.95	2.47	19.04
4	2661.	111.41	117.47	1.76	2.42	19.48
5	2645.	109.48	124.49	5.55	2.69	19.61
6	2693.	107.87	111.59	2.09	2.60	18.23
7	26A1.	106.12	113.22	2.11	2,55	18.98
R	2711.	99.70	106.04	1.81	2.67	22.50
11	2702.	104.56	104.70	1.97	2.75	24.29
12	-2596.	115,53	-141.42	1.74	2.64	19.66
13	-2894.	-98.81	-47.37	-2.70	2.99	-6.62
14	2697.	106.25	136.44	2.00	3.03	19.90
15	2671.	109.71	113.AZ	1.83	2.70	18.67
17.	2633.	115.65	124.23	2.05	2.83	20.93
18	2725.	100.73	99.53	1.93	3.03	22.10

MODE 8

UNIT	FC0 X100	FHC X100	FN0 X100	STO FCO X100	STD FHC X100	STD FNO
1	•1990	.0750	14.8190	.2000	.0770	17.4210
2	1970	.0730	14.7250	.1980	.0750	17.3100
3	.1990	.0750	14.8190	.2000	.0770	17.4210
4	.1990	.0750	14.8190	.2000	.0770	17.4210
5	.2000	.0780	14.9810	.1990	.0760	17.3460
6	.2010	.0800	15.0950	.2010	.0780	17.4790
7	.2000	-9780	14.9840	.1990	.0760	17.3460
A	.2040	.0830	15.2330	.2030	.0810	17,6330
11	.2010	.0750	-16.2260	.2020	.0800	17,5850
15	.1990	.0730	-16.1240	.2000	.0780	17.4730
13	.2010	.0790	15.3690	.1990	.0760	17.3560
14	.2030	.0790	-16.2960	.2030	.0820	17.6560
15	.2010	.0770	-16.1970	.2010	.0800	17.5450
17	.1980	.0730	-15.8700	.1980	.0760	17.3230
18	.2010	.0770	-16.0730	.2010	.0800	17.5450

MODE A

UNIT	NREC CO EI LB/KLB FU	NREC HC EI LB/KLB FU	NRE CNO EI LB/KLB FU	NR CNOX EI L9/KLR FU	SMK NUMBER CORRECTED
1	99.40	111.15	2.52	2.80	17.68
5	110.76	114.88	2.54	2.95	18.74
3	108.74	112.14	2.45	3.12	19.04
4	110.87	113.22	2.15	3.06	19.48
5	109.98	127.22	2.76	3.34	19.61
6	109.36	114.04	2.60	3.23	18.23
7	106.63	115.77	2.62	3.17	18.98
8	100.18	108.44	2.25	3.32	22.50
11	103.92	97.97	2.18	3.20	24.29
12	114.71	-132.35	2.03	3.07	19.66
13	-89.78	-48.92	-3.27	3.61	-6.62
14	104.03	102.70	2,33	3.51	19.90
15	109.51	109.89	2.13	3.15	18+67
17	115.59	120.33	2.41	3.32	20.93
18	100.67	96.38	5.26	3.55	22.10

JT30-7 * 1200 HOUR TEST SERIES *

UNIT	TSO HR	TSB HR	AMB TEMP DEG R	AMB PRESS IN HG	AMR HUMID-
1	17698.	1112.	502.7	30.19	.004900
5	20104.	1141.	511.2	29.85	.005920
. 3	18865.	1141.	511.2	29.85	.005920
4	17829.	1141.	511.2	29.85	.005920
. 5	17767.	1178.	510.7	30.21	.007330
7	18384.	1178.	510.7	30.21	.007330
8	19335.	1141.	-510.7	30.21	.007330
- 11	16965.	1200.	513.7	30.26	.007260
12	19248.	1166.	513.7	30.27	.007670
13	18557.	1192.	507.7	30,04	.006070
14	19805.	1192.	507.7	30.03	.006080
15	20184.	1192.	507.7	30.03	.006080
17	27019.	1154.	501.5	30.13	.004450

MODE 1

UNIT	N1 SPEED PER CENT	NZ SPEED PER CENT	CORP N1 PER CENT	
1	33.00	60.00	33.52	60.95
2	33.00	60.00	33.24	60.44
3	34.00	61.10	-34.25	-61.55
4	33.00	60.90	33.24	61.35
5	-30.00	61.00	-30.23	61.48
7	33.00	-62.00	33.26	-62.48
A	32.50	60.00	32.75	60.47
11	32.00	60.50	32.16	60.79
12	32.00	60.00	32.16	60.29
13	33.00	60.00	33.36	60.65
14	33.00	60.90	33.36	61.46
15	34.00	60.50	-34.37	61.15
17	34.00	-61.50	-34.5A	-62.55

MODE 1

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LRF
1	1230.	.8710	.8640	1014.	1.030	1078.
2	1260.	.4570	.9030	1032.	1.025	1054.
3	1300.	.8570	.8870	1014.	-1.050	-1134.
4	1330.	.8610	.9340	1059.	-1.060	1119.
5	1270.	.8500	.8700	1041.	1.020	1115.
7	1200.	.8170	7810	1005.	1.030	-1187.
8	1250.	.8560	.8630	978.	1.020	1044.
11	1250.	.8090	.8530	996.	1.020	1065.
12	1210.	.8340	.8410	996.	1.010	1029.
13	-1110.	7640	7770	996.	1.030	1062.
14	1200.	.7880	.8080	978.	1.040	1121.
15	1300.	.8460	.9090	1032.	1.040	1099.
17	1320.	.8570	.8840	1023.	1.040	-1195.

MODE 1

UNIT	CORR FU FL LBM/HR	COR CR F/A X100	COR PF F/A	CORR TT7 COP	LBF
1	1222.	.8980	.8920	1046.	1088.
5	1248.	.8690	.9170	1047.	1052.
3	. 1288.	.8700	.9000	1029.	-1131.
. 4	1317.	.8730	.9470	1074.	1117.
5	1272.	.8640	.8840	1057.	1126.
7	1202.	.9300	7930	1020.	-1199.
9	1252.	.8690	.8760	993.	1054.
11	125A.	.8160	.8610	1005.	1077.
12	1218.	. 8420	.8490	1005.	1041.
13	-1102.	.7800	.7940	1017.	1067.
14	1192.	.8050	.8260	999.	1125.
15	1291.	.8640	.9290	1054.	1103.
17	1307.	.8860	.9140	1058.	-1203.

MODE 1

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	1.491	949.7	764.6	8.3	14.1
2	1.490	993.9	664.A	5.1	15.7
3	1.522	948.0	581.8	5.3	15.0
4	1.510	992.3	628.2	8.9	14.6
5	1.488	950.8	647.6	9.9	10.5
7	1.450	880.8	566.7	6.0	9,7
8	1.485	944.5	696.2	5.7	9.6
11	1.408	923.5	630.0	6.1	9.5
12	1.416	996.2	751.6	3.8	9.0
13	1.453	-699.6	-252.6	6.5	10.2
14	1.376	883.4	609.A	4.3	9.7
15	1.494	937.3	604.4	5.9	10.4
17	1.479	1024.0	700.0	5.5	9.7

MODE 1

UNIT	COS FI	CO EI	HC EI LR/KLR FU	NO EI LR/KLR FU	NOX EI	SMK NIMRER FRONT SIDE
1	2586.	104.86	145.01	1.51	2.56	18.21
2	2627.	111.51	128.13	.94	2.89	18.16
3	2679.	106.22	111.99	.97	2.76	15.79
4	2649.	110.81	120.51	1.63	2.67	16.95
5	2642.	107.48	125.76	1.84	1.95	23.66
7	267 .	103,59	114.49	1.15	1.88	22.48
A	2621.	106.07	134.32	1.06	1.77	25.49
11	2630.	109.81	128.69	1.20	1.86	22.37
12	-2566.	114.94	-148.99	.72	1.71	16.56
13	-2A70.	-27.94	-54.55	1.34	2.11	-8.91
14	2638.	107.80	127.84	.85	1.95	25.07
15	2667.	106.47	117.95	1.10	1.94	20.67
17	2608.	114.87	134,91	1.02	1.78	25.75

MODE 1

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STO FNO X100
1	.1970	0680	15.4550	.2000	.0780	17.4680
5 .	.1960	.0700	15.2490	.1990	.0760	17.3550
3	.1990	.0740	15.4630	.2020	0810	-17.6000
4	.1990	.0740	15.4240	.2020	.0800	17.5560
5	.2010	.0750	15.1140	.2020	.0800	17.5850
7	2040	.0800	15.3360	2050	0850	-17.8440
8.	.1980	.0720	14.9240	.1990	.0760	17.3620
11	•2000	.0750	15.1120	.2000	.0780	17.4340
12	.1980	.0730	14.9020	.1980	.0760	17.3230
13	.1970	0690	15.1760	.1990	0770	17.4010
14	.1990	.0720	15.3310	.2020	.0800	17.5800
15	.1980	.0710	15.2730	.2010	.0790	17.5130
17	.2010	.0730	-15.8790	2060	0860	-17.8660

MODE 1

UNIT	NREC CO EI LB/KLR FU	NREC HC EI	NRE CNO ET	NR CNOX EI L9/KLR FU	SMK NUMBER CORRECTED
1	102.AA	125.55	1.94	3.11	18.21
2	109.98	118.38	1.07	3.2A	18.16
3	104.77	103.44	1.19	3.37	15.79
4	109.29	111,31	1.99	3.27	16.95
5	106.87	118.10	2.30	2.44	23.66
7	103.01	107.46	1.44	2.35	22.49
8	105.48	126.17	1.32	2.21	25.49
11	109.86	124.93	1.49	2.31	22.37
12	115.03	144.74	.90	2.13	16.56
13	-86.65	-49.20	1.66	2.60	-8.91
14	106.20	115.24	1.05	2.40	25.07
15	104.99	106.34	1.35	2.38	20.67
17 -	112.30	114.77	1.23	2.15	25.75

HODE 2

UNIT	NI SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR N2 PER CENT
1	36.50	64.00	37.09	65.01
	.10.50	04.00	37.00	63.01
2	36,50	64.20	36.77	64.67
3	37.00	64.50	37.27	64.97
4	36.00	64.10	36.26	64.57
5	37.00	64.00	37.29	64.50
7	35,50	-65.00	35.7A	-65.51
8	36.00	64.50	36.28	65.00
11	35.00	64.50	35.17	64.81
12	36.00	64.00	36.17	64.31
13	35.40	64,00	35.78	64.69
14	36.20	64.50	36.59	65.20
15	37.00	64.50	37.40	65.20
17	36.30	64.00	36.92	65.09

MODE 2

UNIT	FUEL FLOW LAM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LRF
1	1360.	.8460	.8390	1023.	1.050	1367.
. 5	1370.	.8330	.8540	1032.	1.025	1358.
3	. 1400.	.8360	.8610	1023.	1.050	1380.
. 4	1430.	.8450	.9050	1059.	-1.060	1351.
5	1380.	.9300	.8620	1050.	1.030	1330.
7	1290.	•9110	.7660	1005.	1.040	-1401.
. 8	1360.	.8360	.8090	-978.	1.030	1366.
11	1350.	.7840	.8080	996.	1.025	1350.
12	1350.	8090	.8200	996.	1.015	1314.
13	-1210.	7560	7470	1014.	1.030	1351.
14	1290.	.7720	.7720	-978.	1.040	1387.
15	1430.	.8370	. 4780	1032.	1.040	1387.
17	1390.	•8450	.8590	1023.	1.050	1375.

MODE 2

UNIT	CORR FU FL	COR CB F/A COR		R TT7 COR	THRUST LBF
1	1351.	.8730	.8660	1055.	1379.
2	1357.	.8450	.8660	1047.	1355.
3	1387.	.8480	.8740	1038.	1377.
4	1416.	.8580	9180	1074.	1348.
5	1383.	.8430	e8750	1066.	1343•
7	1292.	.8240	.7780	1020.	-1415.
8	1363.	.8490	.8210	993.	1379.
11	1359.	.7920	.8160	1005.	1365.
12	1359.	.8170	.8280	1005.	1250.
13	-1202.	.7720	.7530	1036.	1356.
14	1281.	.7890	.7880	999.	1392•
15	1420.	.8550	.8970	1054.	1392.
17	1376.	.8740	.8890	1058.	1385.

MODE 2

MIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	1.503	843.6	589.3	9.7	15.4
S	1.492	A94.6	527.7	4.R	16.2
3	1.514	880.7	479.4	5.1	-16.9
4	1.528	900.3	495.3	7.9	16.1
5	1.491	865.A	522.2	8.6	10.6
7	1.476	806.3	463.A	5.9	10.3
8	1.501	845.5	542.2	5.6	10.2
11	1.410	932.2	487.7	6.7	10.3
12	1.436	871.2	559.8	3.6	10.1
13	1.455	-646.R	-207.5	6.9	10.8
14	1.394	789.0	473.6	4.1	10.5
15	1.523	945.3	477.7	5.9	11.2
17	1.491	957.3	597.5	5.4	10.2

S 300M

UNIT	CO2 EI LB/KLR FU	CO EI	HC EI LR/KLB FU	NO EI LB/KLB FU	NOX ET	SMK NUMBER FRONT SIDE
1	2683.	95,85	115.02	1.63	2.87	16.99
. 2	2704.	103.23	104.61	•91	3.07	-0.00
3	2735.	101.25	94.67	.96	3.19	-3.14
4	2728.	102.27	96.66	1.49	3.00	15.94
5	2713.	100.26	103.90	1.63	2.01	23.12
7	2747.	95.50	94.37	1.15	2.00	18.93
8	2710.	97.17	107.04	1.06	1.93	25.26
11	2714.	101.96	102.65	1.35	2.08	20.39
12	2680.	103.51	114.26	•71	1.97	15.75
13	-2905.	-82.18	=45.29	1.43	2.25	10.66
14	2726.	98.21	101.27	.83	2.14	25.00
15	2747.	97.03	94.20	1.11	2.09	20.53
17	2667.	108.93	116.81	1.00	1.91	24.64

MODE S

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO X100	STD FHC	STD FNO
	**********		~~~~~~			
1	.2120	0890	16.5160	.2160	.1040	18.6870
5	.2120	.0930	16.3100	.2150	.1010	18.5720
3	.2130	.0950	16.3980	.2160	.1030	18.6730
4	.2110	.0920	16.2800	.2140	.1000	18.5380
5	•2130	.0930	15.9070	.2140	.1000	18.5140
7	2170	.1010	16.1970	2180	1080	-18.8550
A	.2150	.0970	16.0520	.2160	.1040	18.6840
11	.2150	.0990	16.1350	.2150	.1020	18.6200
15	.2130	•0950	15.8680	.2130	.0980	18.4510
13	.2110	.0910	16.1930	.2150	.1010	18.5780
14	.2140	.0940	16.3390	.2170	.1050	18.7490
15	.2140	.0940	16.3390	.2170	.1050	18.7490
17	.2110	0860	16.6190	.2160	.1040	18.7140

MODE 2

UNIT		NREC HC EI	NRE CHO EI LB/KLB FU	NR CNOX EI LB/KLB FU	SMK NUMBER CORRECTED
	**********				
1	94.01	99,14	1.98	3.49	16.99
. 5	101.80	96.46	1.12	3.76	-0.00
3	99.85	87.27	1.18	-3.90	-3.14
. 4	100.86	89.13	1.81	3.67	15.94
5	99.69	97.39	2.04	2.52	23.12
7	94.95	88.41	1.44	2.50	18.93
. 8	96.61	100.30	1.32	2.41	25.26
11	102.00	99.51	1.68	2.58	20.39
12	103.57	. 110.86	.68	2.46	15.75
13	-80.95	-40.74	1.77	2.78	10.66
14	96.73	91.01	1.03	2.64	25.00
15	95.57	84.66	1.37	2.57	20.53
17	106.46	99.02	1.21	2.31	24.64

MODE 3

UNIT	N1 SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR NZ PER CENT
1	-99.00	100.00	100.56	101.58
2	100.50	100.50	101.23	101.23
3	101.00	101.00	101.74	101.74
4	100.00	100.50	100.73	101.23
5	100.00	100.00	100.79	100.78
7	100.00	103.00	100.78	103.80
A	100.00	101.00	100.78	101.79
11	100.00	102.50	100.49	103.00
12	101.00	101.00	101.49	101.49
13	100.00	101.50	101.08	102.59
14	101.00	102.00	102.09	103.10
15	101.80	99.40	-102.90	100-47
17	100.21	99.50	101.91	101.20

MODE 3

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LRF
1	9830.	-1.4780	1.3810	1392.	1.850	19434.
2	9930.	1.5240	1.4300	1428.	1.850	18644.
3	9870.	1.5930	1.4020	1390.	1.850	18644.
4	9880.	1.5570	1.4270	1437.	1.850	18644.
5	-9570.	1.5440	-1.3530	1410.	1.850	18421.
7	9650.	1.5350	-1.3460	1374.	1.850	19421.
8	10050.	1.6210	1.3880	-1347.	1.850	18421.
11	9970.	-1.4910	1.3980	1392.	1,850	18391.
12	10010.	1.5220	1.4120	1410.	1.850	18385.
13	9760.	1.5570	1.3600	1356.	1.850	14529.
14	9690.	1.5870	-1.3510	1356.	1.850	18532.
15	9860.	1.6160	1.3930	1392.	1.850	14532.
17	10160.	1.5290	1.4490	1428.	1.850	18470.

MONF 3

UNIT	CORR FU FL LBM/HR	COR CB F/A	COR PF F/A X100	CORR TT7 COR	THRUST LBF
1	9765.	1.5250	1.4250	1436.	18600.
. 5	9835.	1.5460	1.4510	1449.	18600.
3	9775.	1.6160	1.4220	1410.	18600.
. 4	9785.	1.5800	1.4480	1458.	18600.
5	-9588.	1.5690	1.3740	1432.	18600.
7	9668.	1.5590	1.3670	1395.	18600.
8	10069.	1.6460	1.4100	1368.	18600.
11	10035.	-1.5050	1.4110	1405.	18600.
12	10078.	1.5360	1.4260	1423.	18600.
13	9693.	1.5910	1.3900	1385.	18600.
14	-9622.	1.6210	1.3800	1385.	18600.
15	9791.	1.6510	1.4230	1422.	18600.
17	10050.	1.5810	-1.4990	1477.	18600.

HODE 3

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	-3.110	-10.0	3.8	-80.2	84.5
2	3.211	24.4	4.4	88.6	93.1
3	3.359	-27.7	1.7	95.6	97.5
4	3.283	27.0	3.4	83.7	89.1
5	3.258	21.1	4,3	86.9	86.8
7	3.236	21.4	8.0	86.4	82,6
8	3.420	21.6	6.7	89.9	86.7
11	-3.143	18.8	3.4	93,9	92.0
12	3.208	20.3	6.1	97.9	98.9
13	3.297	18.4	3.1	-164.5	-160,9
14	3.351	22.5	4.7	100.9	99.0
15	3.412	23.0	4.9	95.4	92.9
17	3.222	21.2	15.6	90.4	87.0

MODE 3

UNIT	COS EI	CO EI	HC EI	NO EI LBZKLB FU	NOX EI	SMK NUMBER FRONT SIDE
1.	3147.	64	•43	A.49	8.94	48.19
2	3150.	1.53	.47	9.09	9.54	44.37
3	3151.	-1.66	•18	9.37	9.56	46.58
4	3150.	-1.65	•35	A.40	8.94	48.19
5	3153.	1.30	.46	8.79	8.79	49.42
7	3151.	1.32	.45	A.79	8.79	53.95
8	3152.	1.27	.67	A.66	8.66	54.44
11	3153.	1.20	.3A	9.85	9.85	48.95
12	3152.	1.27	.66	10.06	10.16	48.43
13	3156.	1.12	.12	-16.51	-16-51	-21.10
14	3155.	1.35	.48	9.93	9.93	52.44
15	3155.	1.35	•50	9.27	9.22	53.26
17	3152.	1.32	1.66	9.24	9.24	55.26

MODE 3

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X100
1	59,5630	65.4740	82.8260	75.6600	84.4290	96.0580
2 .	67.3790	69.2840	82.0580	75.9900	78.9270	94.5190
3	80.9850	76.3840	84.0000	92.0240	A7.0920	96.7750
4	71.7540	69.2840	82.0580	81.1810	78.9270	94.5190
5	67.0560	64.2560	78.5320	75.6460	72.1800	92.5150
7	87.7830	109.8650	89.2960	99.4180	124.0660	105,3260
8	86.4260	78.1380	82.3030	98.4580	87.9410	97.0000
11	78.5750	104.0310	88.1750	84.3370	111.1060	102.5840
12	71.3810	77.8810	81.6330	76.6150	82.9800	95.6600
13	80.0170	85.7280	86.2300	95.6950	102.8000	100.6950
14	89.3650	94.3230	84.5550	107.5000	113.2890	103.0630
15	71,8630	56.9210	78.1650	86.2280	67.9010	91.1680
17	61.8960	59.3660	81.6210	81.0340	78.3470	94.3520

MODE 3

UNIT			The state of the s	NR CNOX EI	
	LB/KLB FU	LH/KLH FU	LB/KLB FU	LB/KLB FU	CORRECTED
1	51	•33	10.57	11.13	48.19
5	1.35	.41	11.25	11.81	44.37
3	1.46	.16	11.67	11.90	46.59
. 4	1.46	.31	10.39	11.06	48.19
5	1.15	.41	11.12	11.12	49.42
7	1.17	.76	11.14	11.14	53.95
8	1.11	.60	10.96	10.96	54.44
11	1.12	.35	11.45	11.45	48.95
12	1.18	.61	11.79	11.91	48.43
13	.94	.27	-19.28	-19.28	-21.10
14	1.12	.40	11.60	11.60	52.44
15	1.13	.42	10.76	10.76	53.26
17	1.01	1.26	11.47	11.47	55.26

MODE 4

UNIT	N1 SPEED PER CENT	N2 SPEED PER CENT	CORR N1 PER CENT	CORR N2 PER CENT
1	-94.00	-97.50	95.48	99.04
2	95.00	98.20	95.69	98.92
3	96,50	99.00	-97.21	99.72
4	95.00	98.90	95.69	99.62
5	96.00	98,00	96.75	98.76
7	95.00	100.00	95.74	100.78
	-94,50	99.00	95.24	99.77
11	95.50	100.00	95.96	100.49
12 ·	96.00	98.50	96.47	98.98
13	95.60	99.80	96.63	100.88
14	96,20	100.20	-97.24	101-28
15	95.40	-96.80	96.43	97.84
17	94.90	-97.00	94.52	98.65

MODE 4

UNIT	FUEL FLOW LBM/HR	CR F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LRF
1	8250.	-1.3360	1.2740	1293.	1,660	15684.
. 2	8200.	1.3680	1.3030	1338.	1.660	15863.
3	8350.	1.4310	1.3090	1302.	1.660	15863.
4	8270.	1.3860	1.3230	1356.	1.660	15863.
5	8340.	1.3950	1.3100	1338.	1.650	15674.
7	-7980.	1.3800	-1.2270	1284.	1.660	15674.
. 8	8180.	1.4310	1.2630	1293.	1.660	15674.
11	8350.	-1.3390	1.2870	1293.	1.660	15648.
12	8150.	. 1.3680	1.2600	1302.	1.660	15643.
13	8130.	1.4170	1.2580	1294.	1,660	15765.
14	8170.	1.4270	1.2640	1284.	1.660	15768.
15	7880.	1.4220	-1.2280	1302.	1.660	15768.
17	8240.	1.3770	1.2890	1320 a	1.660	15716.

MODE 4

UNIT	CORR FU FL LBM/HR	COR CB F/A C	COR PF F/A X100	CORR TT7 DEG R	COR THRUST
1	8195.	1.3790	1.315	0 1334	15826.
2	8121.	1.3880	1.322	0 135	7. 15826.
3	8270.	1,4520	1.328	132	1. 15826.
4	8191.	1.4070	1.343	0 137	5. 15826.
5	8356.	1-4160	1.330	0 135	9. 15A26.
7	-7995.	1.4010	1.247	130	4. 15826.
8	9195.	1.4530	1.282	0 131	3. 15826.
11	8404.	-1.3520	1.299	0 130	5. 15826.
12	8265.	1.3810	1.272	0 131	4. 15826.
13	8074.	1.4470	1.285	0 131	2. 15826.
14	8113.	1.4570	1.292	0 131	2. 15826.
15	-7825.	1.4530	1.254	133	15826.
17	8159.	1.4250	1.333	0 136	5. 15826.

MODE 4

UNIT	COR CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	-2.807	19.3	1.9	64.4	69.8
2	2.877	29.8	1.9	69.0	75.4
. 3	3.012	29.8	1.4	73.9	77.5
4	2.917	33.2	1.0	65.9	73.2
5	2.937	27.1	2.5	70.7	72.0
7	2.904	29.8	4.4	67.5	67.1
8	3.014	26.3	3.1	68.4	68.5
11	-2.419	23.8	1.9	74.2	74.5
12	2,880	26.8	2.6	77.3	78.6
13	2.987	20.3	1.0	-155.0	-121.8
14	3.007	27.1	2.6	79.4	80.2
. 15	5.996	33.6	2.7	70.3	72.2
17	2.900	30.4	6.A	69.1	69,3

MODE 4

COS EI	CO EI LB/KLB FU	HC ET LB/KLR FU	NO FI LB/KLB FU	NOX EI LB/KLB FU	SMK NUMBER FRONT SIDE
-3146.	1.37	.23	7.54	8.18	48,43
3150.	2.08	.23	7.90	8.63	46.18
3150.	1.99	.16	8.08	8.48	47.51
3149.	2,28	.23	7.44	8.26	48.57
3152.	1.85	•59	7.94	8.08	54.04
3151.	2.06	.53	7.65	7.65	55.16
3152.	1.75	.35	7.48	7.49	56.58
3153.	1.69	.23	R.68	8.71	48,95
3152.	1.87	.31	8.85	8.99	50.00
3155.	1.36	•55	-13.48	-13.48	-20.79
3155.	1.81	•30	8.71	8.80	55.13
3154.	2,25	•31	7.74	7.94	54.64
3153.	2.10	.81	7.85	7.88	56.68
	-3146. 3150. 3150. 3150. 3149. 3152. 3151. 3152. 3153. 3155. 3155.	-3146. 1.37 3150. 2.08 3150. 1.99 3149. 2.28 3152. 1.85 3151. 2.06 3152. 1.75 3153. 1.69 3155. 1.87 3155. 1.36 3155. 1.81 3154. 2.25	-3146. 1.37 .23 3150. 2.08 .23 3150. 1.99 .16 3149. 2.28 .23 3152. 1.85 .29 3151. 2.06 .53 3152. 1.75 .35 3153. 1.69 .23 3155. 1.87 .31 3155. 1.36 .22 3155. 1.81 .30 3154. 2.25 .31	-3146. 1.37 .23 7.54 3150. 2.08 .23 7.90 3150. 1.99 .16 8.08 3149. 2.28 .23 7.44 3152. 1.85 .29 7.94 3151. 2.06 .53 7.65 3152. 1.75 .35 7.48 3153. 1.69 .23 8.68 3152. 1.87 .31 8.85 3155. 1.36 .22 -13.48 3155. 1.81 .30 8.71 3154. 2.25 .31 7.74	-3146. 1.37 .23 7.54 8.18 3150. 2.08 .23 7.90 8.63 3150. 1.99 .16 8.08 8.48 3149. 2.28 .23 7.44 8.26 3152. 1.85 .29 7.94 8.08 3151. 2.06 .53 7.65 7.65 3152. 1.75 .35 7.44 7.49 3153. 1.69 .23 8.68 8.71 3152. 1.87 .31 8.85 8.99 3155. 1.36 .22 -13.48 -13.48 3155. 1.81 .30 8.71 8.80 3154. 2.25 .31 7.74 7.94

MODE 4

UNIT	FCO	FHC	FNO	STD FCO	STD FHC	STD FNO
	X100	X100	X100	X100	X100	X100
		********	•••••••			
1	-36.6190	39.9250	73.5480	45.0370	50.9910	85.1060
2	40.6800	43.8520	73.5200	45.1290	49.7500	84.6030
3	48.9470	51.5010	76.4190	54.6540	58.5120	87.9480
4	45.0770	50.4820	76.0520	50.0800	57.3430	.87.5420
5	41.9900	43.0990	71.3450	46.5560	48.2300	A3.9730
7	50.2810	64.2560	78.5320	55.4730	72.1800	92,5150
8	49.4150	52.7000	74.8800	55.0570	59.0860	A8.1740
11	47.0390	63.9490	78.4700	49.9420	68.0050	91.2310
12	42.3420	47.4090	72.4600	44.9440	50.3630	84.8520
13	52.2300	61.6080	79.6660	-61.0810	73.5460	92.9120
14	55.3030	66.6120	81.1690	-64.8190	-79.62A0	-94.7190
15	-38.5730	-33.5790	68.8180	44.8410	39.7860	80.1390
17	-37.0380	36.1080	72.479	46.6600	47.1610	83.5220

MODE 4

UNIT	NREC CO EI	NREC HC EI LB/KLB FU		NR CNOX EI	SMK NUMBER CORRECTED
					COUNTELLED
1	-1.12	.18	9.37	10.17	48.43
. 2	1.87	.20	9.76	10.67	46.18
3	1.78	.14	9.99	10.48	47.51
4.	2.05	.20	9.20	10.21	48.57
. 5	1.67	.26	10.03	10.22	54.04
7	1.85	.47	9.68	9.68	55.16
8	1.57	31	9.46	9.48	56.58
11	1.59	•55	10.84	10.88	48.95
12	1.76	.29	11.13	11.30	50.00
1°	-1.16	.19	-15.72	-15.72	-20.79
14	1.54	.25	10.16	10.26	55.13
15	1.93	.26	9.68	9.93	54.64
17	1.67	.62	9.72	9.76	56.68

MODE 5

UNIT	NI SPEFO PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR NZ PER CENT
	*******		******	
1	A5.00	93.00	96.34	94.47
5	86.00	94.00	A6.63	94.69
3	86.00	94.20	96.63	94.89
4	85.50	94.00	86.12	94.69
5	85.00	93.00	A5.66	93.73
7	85.00	95.00	85.66	95.74
8	A5.00	94.00	45.66	94.73
11	86.00	95.00	86.42	95.46
12	85.00	94.00	A5.41	94.46
13	84.80	94.40	85.71	95.42
14	86.20	95.00	87.13	96.02
15	85.40	-92.20	96.32	93.19
17	85.10	-92.80	86.55	94.38

MODE 5

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LRF
1	580C.	-1.1390	1.1330	1203.	1.390	10869.
2	5830.	1.1860	1.1600	1221.	1,390	10993.
3	5820.	1.2020	1.1370	1176.	1,390	10993.
4	5730.	1.1760	1.1480	1239.	1,390	10993.
5	5650.	1.1660	1.1070	1212.	1.390	10862.
7	5530.	1.1770	1.0590	-1158.	1,390	10862.
8	5660.	1.1870	1.0960	1185.	1,390	10862.
11	5700.	-1.1140	1.0980	1176.	1,390	10844.
12	5670.	1.1610	1.0920	1176.	1.390	10841.
13	-5430.	1.1540	-1.0540	1176.	1,390	10926.
14	5590.	1.1820	1.0850	1176.	1.390	10927.
15	5520.	1.1840	1.0800	1194.	1,390	10927.
17	5790.	1.1740	1.1330	1203.	1.390	10891.

MODE 5

UNIT	CORR FII FL LRM/HR	COR CR F/A CO		R TT7 COR	THRUST
1	5761.	1.1760	1.1690	1241.	10968.
5	5774.	1.2040	1.1770	1239.	10968.
3	5764.	1.2190	1.1530	1193.	10968.
4.	5475.	1.1930	1.1650	1257.	10968.
5	5661.	1.1840	1.1240	1231.	10968.
7	5540.	1.1960	1.0760	1176.	10968.
9	5671.	1.2060	1.1140	1203.	10968.
11	5737.	-1.1250	1.1090	1187.	10968.
12	5709.	1.1720	1.1030	1187.	1096A.
13	-5393.	1.1790	1.0770	1201.	10968.
14	5551.	1.2070	1.1090	1201.	10968.
15	5491.	1.2090	1.1030	1220.	10968.
17	5733.	1.2150	1.1720	1244.	10968.

MODE 5

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1	-2.384	62.9	2.5	43.8	51.1
2	2.488	62.0	1.7	44.6	54,6
3	2.519	66.4	2.5	48.3	55.8
4	2.464	67.8	1.9	40.7	51.8
5	2.445	68.6	2.7	43.4	48,2
7	2.468	69.6	4.3	40,3	46.5
8	2,492	53.8	2.7	43.1	47,7
11	-2,336	52.7	1.9	44.0	48.5
12	2.434	64.8	2.5	41.3	49.1
13	2.426	-31.2	1.9	-62.2	-67.1
14	2.480	65.4	2.8	44.4	52,5
15	2.482	-88.5	3.6	39.3	47.9
17	2.464	71.4	4.6	42.2	48.7

MODE 5

UNIT	CO2 EI	CO EI	HC FI LB/KL4 FU	NO E1 LB/KLB FU	NOX EI LB/KLB FU	SMK NUMBER FRONT SIDE
1	-3140.	5.27	.35	6.03	7.04	49.61
2	3145.	4.99	.24	5.89	7.21	47.24
3	3144.	5.28	.33	6.30	7.29	49.80
4	3144.	5.51	• 56	5.43	6.91	48.69
5	3146.	5,62	.37	5.84	6.49	53.05
7	3145.	5.65	.60	5.37	6.20	55.05
A	314A.	4,32	.37	5.69	6.30	57.61
11	3148.	4.52	.28	6.20	6.84	52.11
15	3147.	5,33	.36	5.59	6.64	49.09
13	3153.	-2.58	.2R	-8.45	-9.12	-19.53
14	3149.	5.28	.39	5.89	6.97	-58.04
15	3146.	-7.14	.50	5.21	6.35	53.95
17	3147.	5.80	.65	5.64	6.51	56.90

. MODE 5

UNIT	FCO X100	FHC X100	FN0 X100	STD FCO	STD FHC X100	STD FNO X100
1	-17.3660	14,9450	57.8210	20.55 3	18.7760	66.6500
2 .	20.0390	17.5350	58,7460	21.8510	19.7520	67.4A80
3	20.8910	18.3620	59.4170	22.8050	20.6910	68,2640
4	19.7610	17.5350	58.7460	21.5350	19.7520	67.4980
5	17.6390	14.2180	54.3520	19.1230	15.7670	63,8380
7	22.2900	22.5640	60.9060	24.2430	25-1120	71,5950
8	20.2650	17.9710	57.5880	22.0260	19.9650	67,6660
11	20.4650	22.2690	60.7150	21.4330	23.5770	70.4930
12	19.4920	17.7150	56,9450	20,4270	18.7240	66,6040
13	20.3160	19.8250	60.4770	22.9080	23.3430	70.3210
14	22.4360	22.6790	62.5080	25,3860	26.7510	72.7150
15	-16.5140	-11.8550	53.2670	18,5950	13.8870.	61.8650
17	17.7640	14.3260	57.7360	21.4350	18.4050	66.3230

MODE 5

UNIT	NREC CO ET		NRE CNO EI	NR CNOX EI LB/KLB FU	SMK NUMBER CORRECTED
1	4.46	.28	7.47	8.71	49.61
2	4.58	.21	7.27	8.90	47.24
3	4.84	.30	7.77	8.99	49.80
4	5.05	.23	6.70	8.53	48.69
5	5.1A	.34	7.36	8.19	53.05
7	5.19	.54	6.78	7.A3	55.05
A	3.98	.33	7.18	7.95	57.61
11	4.32	.26	7.73	8.52	52.11
12	5.09	.34	7.02	R.34	49.09
13	-2.29	.23	-10.55	-11.39	-19.53
14	4.67	.33	7.36	8.71	-58.04
15	-6.34	.42	-6.49	7.92	53.95
17	4.81	•51	6.95	8.03	56.90

MODE 6

UNIT	N1 SPEED PER CENT	N2 SPEED PER CENT	CORR NI PER CENT	CORR NZ PER CENT
	********		********	
1	69.00	86.00	70.09	87.36
2	70.00	86.50	70.51	87.13
3	70.00	86.70	70.51	87.33
4	69.00	86.50	69.50	87-13
5	70.50	86.50	71.05	87.17
7	67.50	87.00	68.03	87.68
. 8	67.00	87.00	67.52	87.68
11	68.00	87.00	68.33	87.42
12	59.00	86.50	69.33	86.92
13	67.00	86.00	67.72	86.93
14	-71.80	88.50	-72.57	-89.45
15	67.00	-84.60	67.72	85.51
17	67.00	-84.80	68.14	86.25

MODE 6

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LRF
1.	.3300.	•9550	.9340	1086.	1.170	5585.
. 2	3370.	•9580	.9720	1104.	1.170	5648.
3	3380.	.9830	.9600	1068.	1.170	5648.
4	3330.	.9450	.9650	1113.	1.170	5648.
. 5	3430.	.9470	.9780	1104.	1,170	5581.
7	3070.	.9330	. 8540	-1050.	1.170	5581.
A	3150.	9040	.9910	1086.	1,170	5581.
11	3140.	.8900	.8720	-1050.	1,170	-5572.
12	3270.	•9350	•9150	1068.	1.170	-5570.
13	-2970.	8790	8380	106A.	1.170	5613.
14	3440.	•9550	.9710	1068.	1.170	5614.
15	3060.	.8940	.8630	1068.	-1,170	5614.
17	3140.	.9100	.8870	1077.	1,170	5596.

MODE 6

UNIT	CORR FU FL LBM/HR	COR CB F/A	COR PF F/A X100	CORR TT7 DEG R	COR THRUST
1	3278.	.9850	.964	0 112	5635.
2	3338.	.9720	.987	0 112	5635.
3	3348.	•9970	.974	0 108	5635,
4	3298.	.9590	.979	0 112	9. 5635.
5	3436.	.9610	•993	0 112	1. 5635.
7	3076.	•9480	.967	0 106	6. 5635.
8	3156.	.9180	.905	0 110	3. 5635.
11	3160.	.8990	.880	0 106	5635.
12	3292.	.9440	.924	0 107	5635.
13	-2950.	.8980	.856	0 109	1. 5635.
14	3416.	•9750	.992	0 109	1. 5635.
15	3039.	•9140	.882	0 109	1. 5635.
17	3109.	.9410	.917	0 111	4. 5635.

MODE 6

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1 .	1.979	168.9	12.7	29.4	34.2
5	1.993	204.7	15.3	55.0	33,6
3	2.041	176.4	13.4	21.1	35.6
4	1.958	192.5	12.5	27.1	33,1
5	1.961	201.2	16.8	28.5	29.3
7	1.933	186.4	18.5	-16.7	26.5
8	1.875	162.3	12.9	20.2	8.65
-11	1.847	163.2	10.8	25.9	27.4
12	1.937	186.6	16.1	19.7	29.4
. 13	-1.835	-A1.3	-4.6	. 27.6	31.2
14	1.983	174.9	15.2	20.7	31.1
15	1.949	?19.3	22.2	19.4	26.2
17	1.993	208.1	20.3	-17-1	27.2

MODE 6

UNIT	CO2 EI	CO EI LB/KLB FU	HC ET LB/KLB FU	NO EI LR/KLR FU	NOX EI LR/KLB FU	SMK NUMBER FRONT SIDE
1	3116.	16.93	2.19	4,91	5.62	39.61
2	3114.	20.46	2,62	3.62	5.51	40.92
3	3120.	17.16	2.25	3.38	5.68	43.44
4	3117.	19.50	2.17	4.50	5.50	40.00
5	3116.	20.35	2.92	4.73	4.86	48.32
7	3117.	19.12	3.26	-2.82	4.46	48.81
8	3122.	17.20	2.35	3.52	4.66	50.73
11	3123.	17.56	2.00	4.58	4.84	47.24
12	3118.	19.11	2.83	3.32	4.95	39.74
13	-3142.	-8.87	85	4.94	5.58	-12.76
14	3123.	17.53	2.61	3.41	5.12	-52.75
15	3110.	-23.48	4.07	3.45	4.62	49.67
17	3114.	21.90	3.67	2.96	4.70	46.40

MODE 6

UNIT	FCO X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO
1	6.6570	2.9610	38.8990	7.6050	3.6240	44.5530
2	6.8460	3.0940	38.4110	7,3210	3.4400	43,9930
3	7.1720	3.2400	38.8440	7.6790	3.6040	44,4930
4	6.7620	3.0940	38.4110	7.2280	3.4400	43.9930
5	6.8420	3.1710	37.6520	7.2800	3.4740	44.0980
7	7.1210	3.5570	38.7180	7.5770	3.9000	45.3570
A	6.9230	3.5570	3A.7190	7.3570	3.9000	45.3570
11	6.7970	3.5060	38.5950	7.0300	3.67A0	44,7140
12	6.7260	3.1250	37.2400	6,9600	3.2750	43,4490
13	6.1020	2.8460	37.5860	6.6650	3.2800	43.4850
14	8.6060	-5.1380	-43.4320	-9.4780	-5.9620	-50.3300
15	-5.3180	2.0420	34.6630	5.8020	2.3460	40.0720
17	-5.6190	2.2480	36.6890	6.4550	2.7960	41.8270

MODE 6

UNIT	NREC CO EI LB/KLB FU	NREC HC EI LB/KLB FU		NR CNOX EI LB/KLR FU	
1	14.82	1.79	6.04	6.92	39.61
2	19.13	2,36	4.45	6.78	40.92
3	16.03	2.02	4.15	6.99	43.44
4	18.25	1.95	5.54	6.77	40.00
5	19.12	2.67	5.95	6.11	48.32
7	17.97	2,97	-3,54	5.61	. 48.81
8	16.18	2,14	4,43	5.86	50.73
11	16.98	1.91	5.70	6.02	47.24
12	18.47	2.70	4.16	6.21	39.74
13	-8.12	74	6.14	6.93	-12.76
14	15.92	2.25	4.24	6.37	-52.75
15	21.52	3,55	4.29	5.73	49.67
17	19.06	2.95	3.63	5.75	46.40

MODE 7

UNIT	N1 SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR N2 PER CENT
			PEN CENT	
1	35.50	64.00	36.06	-65.01
2	36.00	63.50	36.26	63.96
3	36.00	63.50	36.26	63.96
4	36.00	64.00	36.26	64.47
5	36.00	-63.00	36.28	63.49
7	35.00	64.00	35.27	64.50
A	35.00	64.00	35.27	64.50
11	35.00	64.00	35.17	64.31
12	36.00	64.00	36.17	64.31
13	34.90	-63.20	35.28	63.88
14	35.70	63.60	36.09	64.29
15	36.30	63.50	36.69	64.18
17	36.20	64.00	36.82	-65.09

HODE 7

UNIT	FUEL FLOW	CR F/A X100	PERF F/A X100	TT7 DEG R	EPR	THP::IST LRF
1	1260.	.7900	.7740	1014.	1.750	-1367.
2	1320.	.7960	.8390	1030.	1,025	1308.
3	1330.	.8320	.8320	996.	1.050	1308.
4	1370.	.8020	.8620	1041.	-1.060	1344.
5	1280.	.7640	.8170	1032.	1.030	1259.
7	1205.	.7810	.7270	-978.	1.040	1330.
8	1280.	.7710	.7900	1025.	1.040	1330.
11	1290.	.7480	.7700	-960.	1.025	1314.
12	1260.	.7610	.7650	996.	1.020	1314.
13	1160.	7180	.7340	1014.	1.030	1294.
14	1240.	.7440	.7620	-979.	1.050	1323.
15	1340.	.8000	.8470	1032.	1.040	1315.
17	1335.	.7980	.8250	1023.	1.050	-1375.

MODE 7

UNIT	CORR FU FL LRM/HR	COR CB F/A X100	COR PF F/A	CORR TT7 (	COR THRUST
1	1252.	.8150	.7990	1046	-1379.
5	1307.	.8080	.4510	1045	1305.
3	1317.	.8440	.8440	1010	1305•
4	1357.	.8130	.875	1056	1341.
5	1282.	.7760	.830	1048	1271.
7	1207.	.7930	.7380	993.	1343.
A	1282.	.7830		1041	1343.
11	1298.	.7560	.777	-969	1329.
12	1269.	.7680	.7730	1005	1329.
13	-1152.	.7340	.7500	1036	1299•
14	1231.	.7600	.7780	999,	1328•
15	1331.	.8180	. 8660	1054	1320•
17	1322.	.8250	.8540	1058	-1385.

MODE 7

CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
1.423	781.3	490.4	10.5	15.7
1.444	840.2	451.2	7.3	15.7
1.504	865.8	493.1	7.0	-17.1
1.459	856.2	434.1	9.9	16.0
1.375	830.0	464.6	10.7	11.0
1.431	760.5	416.A	6.4	10.3
1.409	750.1	422.7	8.2	11.1
1.366	782.2	399,7	9.2	10.6
1.372	798.9	458.9	4.9	10.4
1.379	-653.3	-193.3	9.3	10.7
1.352	756.4	427.4	6.1	10.7
1.461	822.0	436.2	7.7	11.2
1.422	895.2	523.6	5.5	10.3
	1.423 1.444 1.504 1.459 1.375 1.431 1.409 1.366 1.372 1.379 1.352	PER CENT PPM  1.423 781.3  1.444 840.2  1.504 865.8  1.459 856.2  1.375 830.0  1.431 760.5  1.409 750.1  1.366 782.2  1.372 798.9  1.379 -653.3  1.352 756.4  1.461 822.0	PER CENT PPM PPM  1.423 781.3 490.4  1.444 840.2 451.2  1.504 865.8 493.1  1.459 856.2 434.1  1.375 830.0 464.6  1.431 760.5 416.8  1.409 750.1 422.7  1.366 782.2 399.7  1.372 798.9 458.9  1.379 -653.3 -193.3  1.352 756.4 427.4  1.461 822.0 436.2	PER CENT PPM PPM PPM PPM  1.423 781.3 490.4 10.5  1.444 840.2 451.2 7.3  1.504 865.8 493.1 7.0  1.459 856.2 434.1 9.9  1.375 830.0 464.6 10.7  1.431 760.5 416.8 6.4  1.409 750.1 422.7 8.2  1.366 782.2 399.7 9.2  1.372 798.9 458.9 4.9  1.379 ~653.3 -193.3 9.3  1.352 756.4 427.4 6.1  1.461 822.0 436.2 7.7

MODE 7

UNIT	COS EI	CO ET LB/KLB FU	HC ET LB/KLB FU	NO FI LR/KLR FU	NOX EI LR/KLB FU	SMK NUMBER FRONT SIDE
1	2719.	95.00	102.44	5.09	3.13	14.56
5	2738.	101.39	93.54	1.44	3.12	17.08
3	2728.	99.93	97.78	1.33	3.24	18.08
4	2747.	102.60	A9.37	1.94	3.15	17.23
5	2716.	104.38	100.37	2.21	2.27	20.65
7	2767.	93.59	98.11	1.28	2.08	20.53
Я	2760.	93.53	90.55	1.68	2.27	-27.97
11	2756.	100.43	RR-17	1.93	2.24	21.57
12	2724.	100.94	99.61	1.02	2.15	15.93
13	-2899.	-97.38	-44.41	2.05	2.35	-10.39
14	2744.	97.74	94.98	1.30	2.27	25.23
15	2756.	98.68	89.95	1.52	2.20	24.67
17	2691.	107.84	109.36	1.10	2.04	23.92

MODE 7

UNIT	FC0 X100	FHC X100	FNO X100	STD FCO X100	STD FHC X100	STD FNO
1	.2120	.0890	-16.5160	2160	1040	-18.6870
2	.2090	.0880	16.1930	.2120	.0960	18.3350
3	.2090	.0880	16.1030	.2120	.0960	18.3350
4	.2110	.0920	16.2500	2140	.0990	18.5040
5 .	2080	0870	15.6200	.2100	.0920	18.1770
7	.2130	.0930	15.9070	.2140	.1000	18,5140
8	.2130	.0930	15.9070	.2140	.1000	18.5140
11	.2130	.0950	15.9900	.2130	.0980	18,4510
12	.2130	.0950	15.8680	.2130	.0980	18,4510
13	2080	0860	15.9600	.2110	.0950	18.3070
14	.2100	.0880	16.0750	.2130	.0980	18.4430
15	.2090	.0880	16.0450	.2130	.0970	18.4090
17	•2110	.0880	-16.6190	2160	1040	-18.7140

MODE 7

UNIT	NREC CO FI LB/KL9 FU	NREC HC EI LB/KLB FU	NRE CNO FI	NR CNOX ET	SMK NUMBER CORRECTED
1	93.17	88.29	2.54	3.81	14.56
2	99,99	86.28	1.76	3.82	17.08
3	98.55	90.19	1.63	3.96	18.08
4	101.18	82.41	2.3A	3.85	17.23
5	103.79	94.15	2.76	2.83	20.65
7	93.05	82.60	1.60	2.60	20.53
8	92.99	84.88	2.11	2.83	-27.97
11	100.47	95.50	2.39	2.77	21.57
12	101.00	96.64	1.27	2.68	15.93
13	-86.08	-39.97	2.53	2.90	-10.39
14	36.28	35.34	1.61	2.80	25.23
15	97.20	80.92	1.87	2.71	24.67
17	105.39	91.86	1.33	2.47	23.92

MODE 8

UNIT	NI SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR N2 PER CENT
***		********		
1	33,50	61.00	34.03	61.96
2	33.50	60.50	33.74	60.94
3	34.00	61.50	34.25	61.95
4	34.00	61.60	34.25	62.05
5	34.00	61.00	34.27	61.48
7	33.00	62.00	33.26	-62,48
8	33.00	61.00	33.26	61.48
11	33.00	61.00	33.16	61.30
12	32.50	60.00	32.66	60.29
13	32.80	60.80	33.15	61.46
14	33.30	61.00	33.66	61.66
15	34.40	61.00	-34.77	61.66
17	34.40	61.80	-34.99	-62.85

MODE 8

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR ·	THRUST . LRF
1	1210.	.8150	.8190	1014.	1.030	1151.
2	1255.	.8180	.8820	1//30.	1.025	1090.
. 3	1290.	.8560	.8610	996.	1.050	1163.
4	1330.	.8210	.9030	1041.	-1.060	1170.
- 5	1250.	.7850	.8500	1023.	1.020	1115.
7	1:50.	.8280	.7580	-97R.	1.030	-1187.
A	1240.	.7980	.8350	1005.	1.030	1115.
11	1240.	. 7710	.4160	-960.	1.015	1101.
12	1170.	.7890	.4130	996.	1.710	1029.
13	-1070.	7340	7340	1014.	1.030	1120.
14	1170.	.7660	.7A30	-97A.	1.050	1135.
15	1280.	.8240	.8790	1032.	1.040	1135.
17	1305.	.8090	.9610	1014.	1.040	-1217.

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MODE 8

UNIT	CORR FU FL LBM/HR	COR CB F/A X100	COR PF F/A X100	CORR TT7 DEG R	COR THRUST
1	1202.	.8410	.845	0 104	6. 1101.
2	1243.	.8300	.895	0 104	5. 105g.
3	1278.	.8680	.473	0 101	1160.
4	1317.	.8330	.917	0 105	6. 1169.
5	1252.	.7970	.863	0 103	9. 1126.
7	1182.	.8410	.770	0 99	31199.
8	1242.	.8100	.849	0 102	0. 1126.
11	1248.	•7780	.924	0 -96	9. 1113.
12	1178.	.7970	.621	0 100	5. 1041.
13	-1063.	•7500	.749	0 103	6. 1125.
14	1162.	•7830	.800	0 99	9. 1139.
15	1271.	.8420	.998	0 105	4. 1139.
17	1292.	.8370	.891	0 104	91225.

MODE 8

					•
UNIT	COZ CONC	CO CONC	HC CONC	NO CONC	NOX CONC
** **					
1.	1.432	854.0	605.3	9.8	15.5
. 2	1.446	927.1	567.A	5.9	15.2
3	1.521	921.6	578.A	5.9	-17.2
	1.464	930.4	525.0	8.6	15.7
. 5	1.384	899.2	555.1	10.0	10.5
7	1.500	926.4	492.6	6.2	10.2
. 8	1.429	835.2	516.1	7.1	10.2
11	1.373	862.0	504.6	8.4	10.1
12	1.378	898.8	601.7	4.4	9,5
13	1.395	-699.7	-234,8	8.6	10.4
14	1.363	A27.7	522.1	5.2	10.0
15	1.477	891.9	523.6	6.9	10.5
17	1.408	960.1	655.6	5.3	9.8

MODE 8

UNIT	CO2 FT LB/KLR FU	CO ET	HC FI LB/KLB FU	NO FI LB/KLR FU	NOX EI LR/KLR FU	SMK NIIMRER FRONT STDE
1	2654.	100.73	122.66	1.90	3.00	15.01
5	2668.	108.90	114.59	1.13	2.94	17.94
3	2685.	103.50	111.67	1.09	3.17	18.26
4	2492.	108.91	105.77	1.66	3.03	16.82
5	2662.	110.11	116.78	2.01	2.11	21.24
7	2736.	-95.91	98.23	1.19	1.94	19.81
R	2705.	100.63	106.43	1.40	2.02	-27.51
11	2690.	107.49	108.10	1.71	2.06	21.33
15	2634.	109.49	125.92	.89	1.90	15.13
13	-2869.	-91.60	-52.AN	1.45	2.23	-9.27
14	2696.	103.83	112,51	1.07	2.05	25.17
15	2707.	104.03	104.93	1.33	2.01	23.33
17	2630.	114.14	127.16	1.03	1.92	25.68

MODE 8

UNIT	FCO X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STO FNO
1	.2000	.0710	15.6510	.2040	.0820	17.6930
5	.1980	.0720	15.3460	.2000	.07R0	17.4670
3	•5010	.0760	15.5410	.2030	.0820	17.6900
4	.2010	.0760	15.5600	.2040	.0830	17.7120
5	.2010	.0750	15.1140	.2020	.0800	17.5950
7	.2040	.0800	15.3360	2050	0850	-17.8440
8	.2010	.0750	15.1140	.2020	.0800	17.5R50
11	.2020	.0770	15.2080	.2010	.0800	17.5450
12	.1980	.0730	14.9020	.1980	.0760	17.3230
13	.1990	.0720	15.3320	.2020	.0800	17,5800
14	.2000	.0730	15.3700	.2030	.0810	17.6250
15	.2000	.0730	15.3700	.2030	.0810	17.6250
17	.2020	.0750	-15.9670	2070	08RO	-17.9660

MODE 8

UNIT	NREC CO EI	NREC HC EI	NRE CNO ET	NR CNOX EI	SMK NUMBER CORRECTED
1	98.83	106.13	2.30	3.64	15.01
?	107.41	105.86	1.38	3.59	17.94
3	102.0A	103.13	1.34	+3.AA	18.26
4	107.42	97.6A	2.03	3.70	16.82
5	109.50	109.66	2.52	2.63	21.24
7	-95.37	92.20	1.48	2.42	19.81
A	100.07	100.32	1.75	2.53	-27.51
11	107.54	104.93	2.12	2.55	21.33
12	109.57	122.33	1.11	2.37	15-13
13 .	-90.25	-47.61	2.28	2.74	-9.27
14	102.29	101.41	1.32	2.53	25.17
15	102.49	94.58	1.64	2.49	-23.33
17	111.57	108.14	1.24	2.32	25.68

JT30-7 * 1800 HOUR TEST SERIES

UNIT	TSO	TSB HR	AMB TEMP DEG R	AMB PRESS IN HG	AMR HUMID LB H20/AIR
	********			******	******
5	20758.	1795.	516.7	29.95	.006550
4	18483.	1795.	516.7	29.95	.006550
5	18336.	1747.	529.2	29.90	.008860
7	18953.	1747.	526.2	29.90	.007840
8	19904.	1701.	523.7	29.90	.007710
11	17553.	1788.	519.7	29.96	.006930
13	19145.	1817.	523.2	29.98	.007230
14	20430.	1817.	522.7	29.97	.007350
15	20809.	1817.	521.7	29.97	.007130
.17	27637.	1772.	520.2	30.04	.006790

MODE 1

UNIT	NI SPEED PER CENT	NZ SPEED PER CENT	CORP NI PER CENT	CORR NZ
	********			
2	33.50	60.00	33.56	60.12
4	33.00	60.50	33.06	59.09
5	34.00	-61.50	33.66	60.89
7	33.00	-61.50	32.76	61.06
A	32.00	60.00	31.85	59.71
11	32.20	60.00	32.17	59.94
13	32.50	60.20	32.36	59.94
14	32.50	60.20	32.38	59.97
15	-34.50	-61.50	-34.40	61.32
17	33.50	60.40	33.45	60.31

MODE 1

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST.
2	1270.	.8640	.9110	1041.	1.020	1027.
4	1330.	.8550	.9560	-1086.	-1.060	1063.
5	1250.	.8690	.8610	1068.	1.040	1085.
7	1190.	.8420	.8060	1032.	1.030	1097.
8	1220.	.8610	.8510	978.	1.020	1011.
11	1280.	.8760	.9060	1014.	. 1.020	1017.
13	-1090.	.8100	7660	1014.	1.020	1016.
14	1180.	.8580	.8150	978.	1.040	1017.
15	1300.	.8640	.8710	1014.	1.040	1113,
17	1300.	.8830	.9080	1023.	1.040	1038.

MODE 1

UNIT	CORR FU FL LBM/HR	COR CR F/A (	OR PF F/A	CORR TT7 COR	LAF
2	1269.	.8680	.9150	1045.	1024.
4	1329.	.8590	.9600	-1090.	1064.
5	1262.	.8510	.8440	1047.	1084.
7	1194.	.8300	.7950	1017.	1096.
8	1225.	.8530	.9470	-96R.	1010.
11	1283.	.8740	.9050	1012.	1018.
13	-1097.	.8030	-,7590	1005.	1018-
14	1187.	.8510	.2020	-970.	1019.
15	1306.	.8590	.9660	1008.	1115.
17	1307.	.8810	.9060	1020.	1043.

MODE 1

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
2	1.495	1022.7	704.2	7.4	9.5
4	1.505	977.9	625.1	5.3	9,6
5	1.538	962.1	609.4	9.3	10.6
7	1.494	910.3	5A5.3	6.1	9,2
8	1.493	960.8	706.3	6.1	9,2
11	1.534	996.2	657.9	5.5	9.9
13	1.549	-684.5	-256.7	8.9	10.7
14	1.480	976.9	717.8	6.0	9.0
15	1.513	999.0	641.1	6.2	9,5
17	1.539	1050.9	674.3	6.4	9.6

MONF 1

UNIT	COS ET	CO ET	HC EI	NO EI LA/KLA FU	NOX ET	SMK NUMBER FRONT SIDE
		••••••				
. 5	2613.	113.73	134.55	1.35	1.74	22.70
4	2657.	109.89	120.69	.9A	1.77	22.38
5	2673.	106.43	115.80	1.69	1.92	20.62
7	2680.	103.93	114.80	1.14	1.73	21.70
8	2618.	107.23	135.43	1.11	1.69	25.10
11	2644.	109.27	123.97	.99	. 1.79	25.49
13	-2885.	-81.13	-52.76	1.73	2.09	-7.75
14	2605.	109.45	138.17	1.11	1.66	22.98
-15	2645.	111.18	122.57	1.13	1.73	20.89
17	2630.	114.35	126.04	1.14	1.72	23.27

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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HODE 1

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO	STD FHC	STD FNO
		*******				*******
2	.1970	.0740	15.2060	.1980	.0750	17.2840
4	.1990	.0760	15.3030	.1990	.0770	17.3950
5	2030	0870	15.0750	.2000	.0780	17.4540
7	-,2030	0850	15.3070	.2010	.0790	17,4930
8	.1980	.0770	15.0030	.1970	.0730	17.1950
11	.1980	.0750	15.1610	.1970	.0740	17.2460
13	.1990	.0780	15.1880	.1970	.0740	17.2450
14	.1990	.0780	15.1430	.1970	.0740	17.2520
15	2030	.0820	15.4370	.2020	.0800	17,5510
17	•1990	.0770	15.3090	.1980	.0760	17.3280

MODE 1

UNIT				NR CNOX ET	
	FANKER FO	FRAKER FO	FHAKEH FIL	LR/KLR FU	CONNECTED
2	113.46	132.13	1.65	2.12	22.70
4	109.62	118.51	1.20	2.17	22.38
5	109.16	128.45	2.11	2.39	20.62
7	105.13	123.59	1.40	2.13	21.70
Ą	108.03	142.17	1.37	2.08	25.10
11	109.55	125.52	1.21	2.19	25.49
13	-81.A3	-54.84	2.11	2.55	-7.75
14	110.29	144.22	1.36	7.03	86.22
15	111.45	126,69	1.37	2.11	20.89
17	114.96	128.86	1.38	2.04	73.27

MODE 2

UNIT	N1 SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR NZ
****	**********			
2	37.00	-65.00	37.07	65.13
4	36.00	64.00	36.07	64.12
5	36.00	64.00	35.64	63.36
7	-34,50	64.00	-34.25	63.54
8	35,50	64.00	35.33	63.69
11	35.00	64.00	34.97	.63.94
13 .	36.00	64.00	35.84	43.72
14	35.50	64.00	35.36	63.75
15	37.00	64.50	36.89	64.31
17	37.00	64.50	. 36.95	64.41

MODE S

UNIT	FUEL FLOW	CB F/A X100	PERF F/A	TT7 DEG R	EPR	THRIIST LAF
2	1400.	.8290	.8530	1041.	1.040	1386.
4	1400.	.8420	.8930	1077.	-1.060	1315.
5	1310.	.A500	.8330	1068.	1.040	1262.
7	-1230.	.4740	.7700	1032.	1.030	1275.
8	1340.	.8400	.9200	987.	1.020	1286.
11	1330.	.8210	.9160	996.	1.025	1301.
13	-1210.	.7760	7490	1014.	1.030	1245.
14	1270.	.8390	.7790	996.	1.040	1287.
15	1400.	.8590	.8610	1032.	1.040	1327.
17	1470.	.8600	.8780	1032.	1.040	1331.

MODE 2

UNIT	CORR FU FL	COR CB F/A CO	R PF F/A (	ORR TTT COR	THRUST LBF
	*********	*********		******	
5	1399.	.8310	.8570	1045.	1388.
. 4	1399.	.8450	.8960	1081.	1316.
5	1322.	.8340	.8170	1047.	1262.
. 7	-1238.	.8120	.7590	1017.	1274.
8	1346.	.8320	.8130	-977.	1285.
11	1333.	.8190	.8150	994.	1303.
. 13	-1217.	.7690	7420	1005.	1287.
14	1277.	.8310	.7730	-988.	1290.
15	1406.	8540	.8560	1026.	1330.
17	1438.	.8570	.8750	1029.	1336.

MODE S

UNIT	COZ CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
	*********				
S	1.486	900.4	524.0	7.9	10.4
4	1.517	908.4	516.2	5.2	10.3
5	1.534	904.7	517.0	9.6	10.8
7	1.480	858.9	524.0	5.4	9,5
A	1.504	A67.0	554.6	5.A	9.9
11	1.469	AA2.0	52A.5	4.9	10.2
13	1.500	-624.1	-201.4	8.4	10.9
14	1.492	884.1	567.9	5.7	9.6
15	1.542	926.8	535.9	5.A	9.6
17	1.551	929.3	512.5	6.2	10.1

MODE 2

UNIT	COZ ET	CO EI	HC EI LB/KLH FU	NO EI LR/KLR FU	NOX EI	SMK NIMMER FRONT STDE
••••		********			********	*******
2	2710.	104.47	104.44	1.51	1.98	22,68
4	2720.	103.68	101.23	.98	1.94	20.68
5	2772.	105.20	100.33	1.77	2.01	20.68
7	2713.	100.21	105.04	1.0A	1.82	20.58
8	2703.	99,19	109.00	1.10	1.85	27.07
11	2702.	103.28	106.32	.95	1.96	24,93
13	-2917.	-77.23	-42.82	1.71	5.55	-6.84
14	2690.	101.40	111.91	1.07	1.81	21.97
15	2710.	103.66	102.99	1.06	1.77	20.00
17	2723.	103.84	98.37	1.13	1.85	22,79

MODE S

UNIT	FC0 X100	FHC X100	FNO X100	STD FCO X100	STD FHC X100	STD FNO X100	
2	2140	1020	14 4710	2174	1000	10 7240	
~	.2160	.1030	16.4710	.2170	.1050	1R.7760	
٠ 4	.2120	.0950	16.1750	.2120	.0970	18.3880	
5	2130	.1020	15.6680	.2090	.0910	18.1340	
. 7	.2120	.1000	15.9250	.2100	.0930	18.1940	
. 4	.2120	.0980	15.9230	.2110	.0940	18.2450	
11	.2120	.0970	16.1120	.2120	.0960	18.3760	
13	.2120	.0990	16.0800	.2110	.0940	18.2550	
14	.2120	.0980	16.0350	.2110	.0940	18.2650	
15	.2140	. 1020	16.2330	.2130	.0940	18.4520	
17	.2150	.1010	16.3310	.2130	.0990	18.4830	

MODE 2

UNIT	NREC CO FI LB/KLB FU	NREC HC EI LB/KLB FU	NRE CNO EI LB/KLB FU	NR CNOX EI LB/KLB FU	SMK NUMBER CORRECTED
2	104.21	102.49	1.84	2.41	22.68
4	103.42	99.36	1.20	2.36	20.68
5	103.87	111.46	2.20	2.50	89.08
7	101.37	113.22	1.32	2.23	20.59
8	99.94	114,55	1.35	2.28	27.07
11	103.55	107.66	1.16	2.40	24.93
13	-77.90	-44.97	2,09	2.71	-6.R4
14	102.18	116.91	1.31	2.22	21.97
15	104.30	106.51	1.29	2.16	20.00
17	104.41	100.62	1.38	2.25	22.79

## JT3D-7 . 1800 HOUR TEST SETIES .

#### MODE

UNIT	NI SPEED PER CENT	NZ SPEED PER CENT	CORP NI PER CENT	CORR NO
••••	***************************************			
5	100.50	101.00	100.69	101.29
4	100.50	101.00	100.69	101.20
5	101.50	101.50	100.49	100.49
7	102.50	-104.50	101.77	103.75
A	101.00	102.00	100.52	101.51
11	100.80	102.50	1000	102.40
13	101.00	102.20	100.56	101.76
14	102.00	103.00	101.61	102.61
15	107.50	100.50	105.50	100-21
17	101.00	100.00	100.85	99.86

MODE 3

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TTT DEG R	EPR	THRUST LAF
2	10150.	1.5500	1.4570	1446.	1.860	18705.
4	. 10100.	1.5490	1.4590	1464.	1.860	18705.
5	9750.	1.5770	1.4100	1464.	1.960	18737.
7	10200.	1.5810	1.4660	1446.	1.860	18737.
8	10170.	1.6510	1.4300	1383.	1.860	18737.
11	9950.	1.5410	1.4190	1428.	1.860	18699.
13	9650.	1.5580	-1.3400	1356.	1.860	18690.
14	9870.	1.5990	1.3890	1392.	1.860	18693.
15	10000.	1.5920	1.4250	1428.	1.860	18693.
17	10200.	1.5880	1.4600	1446.	1.860	18649.

MODE 3

UNIT	CORR FU FL.	COR CB F/A CO		R TT7 COR	THRUST LBF
~~~	••••••				
2	10141.	1.5560	1.4620	1451.	18724.
4	10091.	1.5550	1.4640	1469.	18724.
5	9842.	1.5460	1.3820	1435.	18724.
7	10267.	1.5580	1.4460	1425.	18724.
8	10212.	1.6350	1.4160	1370.	19724.
11	9973.	1.5380	1.4160	1425.	18724.
13	9710.	1.5450	-1.3280	-1344.	18724.
14	9925.	1.5870	1.3780	1381.	18724.
15	10044.	1.5820	1.4170	1419.	18724.
17	10256.	1.5840	1.4550	1447.	19724.

HODE 3

UNIT	COZ CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
2	3,273	16.7	4.0	87.7	85.7
4	3.271	18.5	6.3	85.4	86.5
5	3.331	14.9	3.6	99.1	94.2
7	3.338	15.5	7.5	103.5	96.8
8	3.488	17.1	4.5	100.0	97.1
11	3,251	15.9	5.0	100.9	971
13	3.288	-12.3	2.9	-156.0	-148.3
14	3.375	16.7	4.8	98.4	92,6
15	3.356	19.3	14.4	86.1	84.2
17	3,352	17.6	5.1	89.9	88.4

MODE 3

UNIT	CO2 E1	CO EI	HC EI	NO FI	NOX ET	SHK NUMBER
	LB/KLB FU	LB/KLB FU	LR/KLR FU	LR/KLR FU	LB/KLB FU	FRONT SIDE
2	3154.	1.03	.42	R.84	8.84	52.63
-	3,7.4		•46		•	12.03
4.	3157.	1.14	.67	8.62	8.73	55.42
	3.5		•0.	3.06		,,,,,,
5	3156.	.90	. 3A	9.81	9.81	51.44
7	3155.	.93	.77	10.23	10.23	52.81
8	3155.	.98	.44	9.46	9.46	54.62
11	3157.	.98	.53	10.23	10.23	54.84
13	3154.	75	.30	-15.64	-15.64	-24.34
14	3153.	.99	.49	9.61	9.61	53.20
15	3150.	1.15	1.48	8.45	8.45	54.87
17	3153.	1.06	.52	A.84	. R.A4	52.86

MODE 3

L	INIT	FCO	FHC	FNO	STD FCO	STD FHC	SID FNO
		X100	X300	X100	X100	X100	X100
•		********					
	2	74.6010	75.8700	82.7340	77.0680	78.3210	94.3440
	4	74.4960	75.8700	82.7340	76.9570	78.3210	94.3440
	5	82.6500	81.0200	80.0960	70.2320	68.1290	91.2420
	7	112.1210	-141.1330	-93.3620	99.2920	124.0600	105.3250
	8	101.4200	90.5530	84.2260	93.3860	83.3300	95.7570
	11	85.8390	101.0020	87.8830	84.5470	99.0530	99.8040
	13	85.9680	94.6890	85.9400	80.0670	67,4550	96.8720
	14	101.5290	110.6640	89.0260	95.0670	103.0270	100.7480
	15	76.6630	67.9690	79.5650	73.1150	64.4810	90.0440
	17	72.3610	62.0270	78.3920	70.5710	60.0780	88.5280

MODE 3

UNIT	NREC CO FI LB/KLR FU			NR CNOX EI LB/KLR FU	SMK NUMBER CORRECTED
	**********			******	
2	.99	.41	10,83	10.83	52.63
4	1.10	.65	10.56	10.69	55.42
5	1.06	.45	11.18	11.18	51.44
7	1.05	.88	11.54	11.54	52.81
A	1.07	.48	10.75	10.75	54.62
11	.99	.54	11.62	11.62	54.84
13	81	.33	-17.63	-17.63	-24.34
14	1.06	•52	10.97	10.87	53.20
15	1.21	1.56	10.27	10.27	54.97
17	1.08	.54	10.72	10.72	52.86

MODE 4

UNIT	N1 SPEFD PER CENT	NZ SPEED PER CENT	CORR N1 PER CENT	CORR NZ
			SEK (SM)	PEN CENT
2	95.50	94.50	95.68	98.69
4 .	95.50	98.50	95.68	98.69
5	96.50	99.00	95.54	98.01
7	96.50	-102.00	95.81	101.27
8	96.00	100.00	95.54	99.52
11	95.50	100.00	95.41	99.90
13	97.00	100.90	96.58	100-47
14	97.00	100.50	96.63	100-11
15	-97.50	98.90	-97.22	98.62
17	96.00	98.00	95.86	97.85

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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MODE 4

UNIT	FUEL FLOW LRM/HR	CR F/A x100	PERF F/A	TT7 DEG R	EPR	THRUST
2	8430.	1.3970	1.3440	1356.	1.660	15810.
4	8260.	1.3840	1.3300	1393.	1.660	15810.
5	8170.	1.4100	1.3050	1356.	1.660	15837.
7	8310.	1.3910	1.3180	1338.	1.660	. 15837.
A	8390.	1.4500	1.3310	1338.	1.560	15837.
11	8150.	1.3600	1.2420	1320.	1.660	15805.
13	8320.	1.4110	1,2990	1302.	1,660	15797.
14	8120.	1.4290	1.2590	1284.	1.660	15800.
15	8400.	1.4350	1.3390	1356.	1.650	15800.
17	8450.	1.4270	1.7390	1347.	1.660	15763.

MODE 4

UNII	CORR FU FL LBM/HR	COR CB F/A C	OR PF F/A	CORR TT7 COR	THRUST
			•••••••		
2	8422.	1.4030	1.3490	1361.	15826.
. 4	8252.	1.3890	1.3350	-1388.	15826.
5	8247.	1.3820	1.2790	1329.	15A26.
7	8364.	1.3720	1.3000	1319.	15826.
. 8	8425.	1.4360	1.3180	1323.	15826·
11	8169.	1.3570	1.2790	1317.	15826.
13	8371.	1.3980	1.2880	1291.	15A26.
14	8165.	1.4180	1.2490	-1274.	15826.
15	8438.	1.4260	1.3310	1348.	15826·
17	8496.	1.4230	1.3350	1343.	15826.

MODE 4

	UNIT	COS CONC	CO CONC	HC CONC	NO CUNC	NUX CUNC

	2	2.947	55.6	2.3	70.5	68.9
	4	2.917	24.1	3.0	67.8	69.5
*	5	2.973	21.0	2.3	77.3	78.7
	7	2.932	55.0	4.0	75.9	76.5
	A	3.058	20.8	3.0	76.2	77.3
	11	2.863	21.0	2.6	75.6	71.9
	13	2.972	-13.3	1.9	-122.5	-116.4
	14	3.010	19.9	2.3	76.4	73.7
	15	3,021	24.6	6.9	68.9	69.3
	17	3.007	24.7	2.4	69.7	70.3

MODE 4

UNIT	CO2 E1	CO EI LB/KLB FU	HC EI			SMK NUMBER FRONT STOR
2	-3157.	1.54	.27	7.89	7.89	53.24
4	3157.	1.66	.35	7.67	7.86	56.75
5	3155.	1.42	.27	A.5A	8.73	52.16
7	3155.	1.51	.47	8.53	8.61	54.43
8	3155.	1.37	•34	8.21	8.33	55.32
11	3153.	1.47	•32	a:70	6.70	56.21
13	3154.	90	.22	-13.59	-13.59	-20.71
14	3153.	1.33	•26	8.39	8.39	54.20
15	3151.	1,63	.79	7.51	7.56	54.77
17	3153.	1.65	.28	7.64	7.70	55.16

MODE 4

UNIT	FC0 ×100	FHC X100	FNO X100	STD FCO X100	STD FHC X100	STD FNO
2	43.9430	46.0770	73.3940	45.1810	47.5090	83.6700
. 4	42.9740	46.0770	73.3940	44.1710	47.5090	83.6700
5	46.7570	48.7620	70.8750	40.6840	41.2540	80.8520
7	-61.8650	-90.0540	-83.8440	55,8390	-79.4850	-94,6790
A	55.8300	60.9160	74.5830	52.1060	56.1890	87.1150
11	48.1570	61.8140	78.1230	47,5270	60.6570	88.7320
13	57.3420	73.3300	80.8310	53,8450	67.8210	91.1420
14	56.7740	67.7920	79.1600	53.6680	63.2630	89.6330
15	48.5750	49.2630	73.6420	46,6000	46.7AR0	83.3620
17	43.7260	41.1850	71.0100	42.7670	39.9190	80.2050

MODE 4

UNIT	NREC CO EI LB/KLB FU	NREC HC EI LB/KLB FU		NR CNOX EI LB/KLB FU	SMK NUMBER CORRECTED
2	1.50	.26	9.66	9.66	53.24
4	1.61	.34	9.39	9.62	56.75
5	1.63	.32	10.51	10.70	52.16
7	1.67	.53	10.35	10.44	54.43
8	1.46	.37	10.04	10.18	55.32
11	1.49	.32	10.61	10.61	56.21
13	96	.24	-15.32	-15.32	-20.71
14	1.40	.28	9.50	9.50	54.20
15	1.70	.83	9.13	9.19	54.77
17	1.68	.29	9.27	9.34	55.16

MODE 5

UNIT	N) SPEED PER CENT	NZ SPEED PER CENT	CORP NI PER CENT	CORR NZ PER CENT
	•••••			*******
2	86.50	94.00	86.67	94.18
4	86.00	94.00	86.17	94.18
5	86.50	94.50	A5.64	93.56
7	87.50	-97.00	86.87	96.31
A	96.00	95.50	A5.59	95.04
11	A6.00	95.70	A5.92	95.61
13	87.00	96.00	A6.63	95.59
14	-88.00	96.00	-87.66	95.63
15	87,00	93.00	86.75	-92.73
17	86.50	93.50	86.3R	93.37

MODE 5

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LRF
2	5900.	1.1880	1.1680	1248.	1.400	11189.
4	5880.	1.1740	1.1720	-1266.	1.400	11189.
5	5680.	1.2000	1.1260	1248.	1.400	11207.
7	5850.	1.1940	1.1430	1212.	1.400	11207.
8	5810.	1.2200	1.1330	1212.	1.400	11207.
11	5750.	1.1510	1.1210	1212.	. 1,400	11185.
13	5790.	1.1750	1.1280	1212.	1.400	11179.
14	5860.	1.2310	1.1250	1176.	1.400	11181.
15	5630.	1.1980	1.0970	1212.	1,400	11181.
17	5900.	1.2060	1.1470	1212.	1,400	11155.

MONE 5

UNIT	CORR FU FL LRM/HR	COR CR F/A	COR PF F/A	CORR TT7 COR DEG R	THRUST
5	5895.	1.1930	1.1720	1253.	11200.
4	5875.	1.1790	1.1760	-1271.	11200.
5	5737.	1.1760	1.1030	1223.	1:200.
7	5888.	1.1770	1.1270	1194.	11200•
A	5A24.	1.2090	1.1220	1200.	11200.
11	5763.	1.1490	1.1190	1209.	11200.
13	5826.	1.1650	1.1190	1201.	11200.
14	5892.	1.2210	1.1170	-1167.	11200.
15	5656.	1.1910	1.0910	1205.	11200.
17	5932.	1.2020	1.1440	1208.	11200.

MODE 5

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
2	2.496	58.0	2.2	44.9	48,3
4	2.467	53.5	2.8	43.7	49.2
5	2.521	53.9	2.5	48.8	52.7
7	2.507	53.1	3.3	47.7	52.9
8	2.565	44.1	2.0	47.4	52.0
11	2.416	47.8	2.1	45.9	50.3
13	2.470	-18.7	1.5	-66.8	-68.9
14	2.595	44.1	2.0	49.5	53.4
15	2.512	65.2	4.7	40.7	46.4
17	2.530	62.4	2.2	43.1	48.4

MODE 5

							•
1	INIT	COS E1	CO EI	HC FI	NO ET	NOX ET	SMK NUMPER
		LB/KLP FU	LB/KLB FU	LB/KLB FU	LR/KLR FU	LB/KLB FU	FRONT SIDE
	5	3152.	4.66	•31	5.93	6.37	52.60
	4	3153.	4.35	.39	5.85	6.57	54.43
							, , ,
	5	3151.	4.29	.34	6.3A	6.88	52.54
	7	3150.	4.25	.46	6.27	6.95	54.30
	8	2152	2 /5			4 40	-, -,
	•	3152.	3,45	.27	6.09	6.69	54.51
	11	3149.	3,96	.30	6.26	. 6.85	54.90
	13	3153.	-1.52	•21	-8.91	-9.20	-18.56
	14	3150.	3.42	.27	6.30	6.A1	53.08
	15	3146.	5.20	•65	5.32	6.07	52.36
	17	3147.	4.94	.29	5.60	6.29	54.95

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

一個人にはなると、一大人と、人、人人とは、一人人人は一人人人

MODE 5

UNIT	FCO X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X100
2	19.9040	17.0660	57.5340	20.3530	17.5600	65.5590
4	19.5440	17.0660	57.5340	19,9800	17.5600	65.5590
5	20.8080	17.7200	55.2740	18,5760	15.1490	63.2100
7	-27.3030	-31.9960	-65.2630	25.1100	-28.4840	73.8440
8	24.1730	23.1230	60.4650	22.8700	21.4370	68,8630
11	22.7260	24.8110	62.5580	22,4740	24.3700	71.0700
13	24.0820	26.0900	62.8800	22.8940	24.2520	70.9850
14	25.9870	26.1500	62.7900	24.8060	24.5030	71.1650
15	17.8720	13.1730	53.2840	-17.2930	-12.5610	-60.3740
17	19.1460	14.9020	55.3080	18.7930	14.4650	62.4920

MODE 5

UNIT				NR CNOX ET	
	LB/KLB FU	LB/KLB FU	LR/KLR FU	LB/KLB FU	CORRECTED
5	4.56	.30	7.25	7.80	52.60
4	4.26	.37	7.15	8.04	54.43
5	4.90	.39	7.83	8.45	52.54
7	4.42	.51	7.62	8.45	54.30
A	3.65	.29	7.45	8.19	54.51
11	4.01	.30	7.64	A.36	54.90
13	-1.60	.23	-10.81	-11.16	-18.55
14	3.59	.29	7.67	8.29	53.0A
15	5.37	.68	-6.48	7.39	52.36
17	5.03	.30	6.80	7.63	54.95

MODE 6

UNIT	NI SPEED	NZ SPEED	CORR NI	CORR N2
***	PER CENT	PER CENT	PER CENT	PER CENT
2	69.00	86.00	69.13	86.17
4.	69.00	86.50	69.13	86.67
5	69.00	85.00	67.32	-85.14
7 .	68.00	AR.00	67.51	87.37
8	68.00	A7.50	67.67	87.08
11	68.50	67.50	68.43	87.42
13	70.00	AA.00	69.70	87.62
1.4	-72.50	89.00	-72.23	88.66
15	69.00	85.50	68.80	-85.25
17	69.50	86.00	69,40	85.88

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

天下的人的人,他们是一个一个人,他们们是一个人的一个一个一个人,不是一个人

MODE 6

UNIT	FUEL FLOW LBM/HR	CR F/A X100	PERF F/A	TT7 DEG R	EPR	THRUST LAF
2	3310.	.9330	.9590	1122.	1.170	5629.
4	3390.	.9390	.9870	-1140.	1.170	5629.
5	3040.	.9340	.8760	1104.	1.170	5639.
7	3090.	.9200	.8790	1077.	1.170	- 5639.
A	3160.	.9250	.9100	1104.	1.170	5639.
11	3200.	.8890	.9050	1068.	1.170	5627.
13	3320.	.9510	.9540	1104.	1.170	5625.
1+	3490.	.9890	.9870	1068.	1.170	5626.
15	3200.	.9750	8430	-974.	1.170	5626.
17	3350.	.9500	.9490	1077.	1.170	5612.

NOTE- MINUS SIGNS DENOTE DUTLYING VALUES

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MODE 6

UNIT	CORR FU FL	COR CB F/A	COR PF F/A	CORR TT7 COR	THRUST
	********	*********	********	*******	
2	3307.	.9370	.9630	1126.	5635.
. 4	3377.	.9420	.9910	-1144.	5635.
5	3069.	.9160	.8580	1082.	5635.
.7	3110.	.9070	.8670	1061.	5635.
8	3173.	.9170	.9010	1093.	5635.
11	3207.	.8880	9030	1066.	5635•
13	3340.	.9430	.9460	1094.	5635.
14	3509.	.9820	.9790	1060.	5635.
15	3215.	9700	8380	-918.	5635.
17	3369.	.9470	,9460	1074.	5635.

MODE 6

UNIT	COP CONC	CO CONC	HC CONC	NO CONC	NOX CONC

5	1.935	202.5	18.5	27.3	28.7
4	1.946	182.4	21.1	21.1	29.0
5	1.935	204.0	20.0	28.1	28.4
7	1.910	156.2	16.2	18.8	28.1
A	1.925	145.7	11.5	21.5	28.3
11	1.848	139.4	11.2	19.6	28.7
13	1.989	-57.6	-3.0	31.7	34.5
14	2.061	131.4	10.3	25.1	31.7
15	2.022	191.2	22.1	19.0	27.6
17	1.973	162.8	12.3	20.2	28,3

MODE 6

UNIT	CO2 EI	CO EI LB/KLB FU	HC EI LB/KLB FU	NO EI LB/KLB FU	NOX EI LB/KLB FU	SMK NUMBER FRONT SIDE
5	3119.	20.77	3.27	4.61	4.84	43.51
4	3121.	18.61	3.69	3.54	4.86	47.71
5	3115.	21.11	3.52	4.73	4.79	42.75
7	3125.	16.27	2.90	3.21	4.80	45.53
8	3129.	15.08	2.04	3.65	4.81	48.26
11	3127.	15.01	2.08	3.47	5.07	49,35
13	-3145.	-5.79	52	5.23	5.70	-11.83
14	3131.	-12.71	1.72	3.98	5.04	47.71
15	3116.	18.76	3.72	3.07	4.45	42.11
17	3174.	16.40	2.13	3.34	4.68	46.22

MODE 6

UNIT	FCO	FHC	FNO	STD FCD	STO FHC	STO FNO
	X100 .	X100	X100	X100	X100	X100
5	6.2680	2.6760	36,5700	6.3720	2.7430	41.6340
4	6.6480	3.0110	37.6350	6.7600	3.0870	47.8490
5	6.0710	2.4580	34.1180	-5.5790	7.1450	-39.2050
. 7	7.4960	4.0200	39.2620	7.0450	3.6340	44.5950
8	7.1870	3.6330	38.4350	6.9990	3.4000	43.8470
11	7.0140	3.7320	39.3270	6.9520	3.6720	44.6970
13	7.7970	4.1070	39.9720	7.4950	3.8490	45.2110
14	-9.0610	-5.2250	42.3140	-A.7370	-4.9270	48.0290
15	6.1000	2.2990	34.7890	5,9440	2.2040	-39.4650
17	6.3270	2.6310	36.2100	6.2330	2.5600	40.9380

MODE 6

UNIT	NREC CO ET	NREC HC EI			
••••	LB/KLB FU	LB/KLB FU	LB/KLB FU	LB/KLB FU	CORRECTED
2	20,43	3.19	5.64	5.92	43.51
4	18,31	3.60	4,33	5.94	47.71
5	-22.97	4.03	5.83	5.91	42.75
7	17.31	3.21	3.91	5.86	45.53
8	15.71	2.18	4.47	5.90	48.26
11	15.14	2.11	4.24	6.19	49.35
13	-6.03	56	6.36	6.92	-11-83
14	-13.18	1.82	4.85	6.15	47.71
15	19.25	3.88	3.74	5.42	42.11
17	16.65	2,19	4.06	5.6R	46.22

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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MODE 7

UNIT	N1 SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR NZ
		TEN CENT	Secondary CEMI	
S	36.00	64.00	36.07	64.12
4	35,50	64.00	35.57	64.12
5	36.50	64.00	36.14	63.36
7	34.50	64.00	34.25	63.54
A	34,50	-63.00	34.33	-62.70
11	34.40	-63.00	34,37	-62.94
13	35.00	63.50	34.85	63.23
14	35.00	63.50	34.A7	63.26
15	-37.00	64.00	36.89	63.AZ
17	36.00	64.00	35.95	63.91

MODE 7

UNIT	FUEL FLOW LRM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LAF
2	1350.	.7740	.8470	1041.	1.040	1315.
4	1380.	.7900	.8760	1068.	-1.060	1315.
5	1300.	.7940	. R200	1050.	1.040	1262.
7	1200.	.7780	.7440	1014.	1.030	1275.
8	1240.	.7830	.8000	1032.	1.030	-1215.
11	1260.	.7680	.7900	-978.	1.025	-1230.
13	1160.	.7460	.7350	1032.	1.020	1250.
14	1220.	.7920	.7560	-987.	1.050	1252.
15	1350.	.8240	.8430	1032.	1.040	1292.
17	1330.	.8240	.8250	1023.	1.040	1295.

MODE 7

UNIT	CORR FU FL LAM/HR	COR CH F/A (COR PF F/A	CORR TT7 COP	LAF

2	1349.	.7770	.8500	1045.	1316•
4	1379.	.7930	.8800	-1072.	1316•
5	1312.	.7790	.8040	1029.	1262•
7	1204.	.7670	.7340	999.	1274.
9	1245.	.7750	.7920	1022.	-1214.
11	1263.	.7670	.7890	-976.	-1231-
13	-1167.	.7400	.7290	1023.	1252.
14	1227.	.7860	.7510	-979.	1254.
15	1356.	.8200	.4380	1026.	1294.
17	1337.	.8210	.8220	1020.	1301.

MODE 7

UNIT	CO2 CONC	CO CONC	HC CONC	NO CONC	NOX CONC
	********			*******	
2	1.395	857.4	467.5	9.8	10.6
4	1.433	846.0	451.2	6.9	10.3
5	1.439	846.9	458.9	10.7	10,5
7	1.412	805.0	450.9	5.5	9.7
8	1.430	771.9	433.1	7.7	10.2
11	1.385	823.7	460.7	5.0	10.1
13	1.442	-638.6	-192.3	9.9	10.3
14	1.432	816.8	471.0	7.1	9.7
15	1.486	876.2	499.6	5.9	9,4
17	1.472	-918.9	525.8	6.3	9.1

MODE 7

UNIT	COS ET	CO EI LB/KLB FU	HC FT LR/KLR FU	NO FI LR/KLR FU	NOX EI LR/KLB FU	SMK NUMBER FRONT STOE
2	2720.	106.41	99.68	2.00	2.15	19.69
4.	2740.	102.94	94.32	1.37	2.06	20.00
5	2736.	102.44	95.37	2.12	2.12	19.55
7	2740.	99.41	95,65	1.12	1.96	20.05
A -	2759.	94.76	91.35	1.55	2.05	-26.23
11	2727.	103.01	98,97	1.03	2.06	25.29
13	-2916.	-82.17	-40.31	2.10	2.17	-8.14
14	2731.	99.12	94.19	1.41	1.93	21,82
15	2721.	102.12	100.02	1.12	1.80	21.31
17	269R.	107.20	105.39	1.21	1.75	23.23

MODE /

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO
2	•2120	•0950	16.1750	.2120	.0970	18,3980
4	.2120	.0950	16.1750	•5150	.0970	18.3880
5	.2130	.1020	15.6680	.2090	.0910	18.1340
7	.2120	.1000	15.9250	.2100	.0930	18.1940
A	2080	.0910	15.6330	2060	0870	-17.9150
11	2080	.0900	15.8190	2070	0880	-17,9940
13	.2100	.1950	15.9340	.2090	.0900	18.0990
14	.2100	.0950	15.8890	.2090	.0910	18.0990
15	.2120	.0980	16.0850	.2110	.0950	18.2850
17	.2130	.0970	16.1830	.2110	.0950	18,3160

MODE T

UNIT	NREC CO EI LB/KLA FU			NR CNOX ET	SMK NUMBER CORRECTED
2	106.15	97.85	2.44	2.63	19.69
4	102.68	92,58	1.68	2.51	20.00
5	104.13	105.95	5.04	2.64	19.55
7	100.56	103.09	1.37	2.41	20.05
A	95.47	95.96	1.90	2.53	-26.23
11	103.28	100.22	1.26	2.52	25.29
13	-82.97	-42,33	2.56	7.64	-8.14
14	99.89	102.56	1.72	2.36	21.82
15	102.74	103.44	1.37	5.50	21.31
17	167.79	107.79	1.47	2.13	23.23

MODE F

UNIT	N1 60550	No corre		
ONTI	NI SPEED	N2 SPEED	CORR NI	CORR N2
	PER CENT	PER CENT	PER CENT	PER CENT
2	33.50	60.50	33,56	60.62
4 .	34.00	62.00	34.07	62.12
5	34.00	61.50	33.66	60.89
7	33.00	67.00	32.76	61.56
8	34.00	61.00	33.84	60.71
11	32,90	61.20	32.87	61.14
13	32.50	60.20	32.36	59.94
14	33.00	61.00	32.87	60.77
15	-35.00	62.00	-34.90	61.82
17	33,50	61.00	33.45	60.91

MODE 8

UNIT	FUEL FLOW LBM/PR	CB F/A X100	PERF F/A X100	TT7 DEG R	FPR	THPUST
2	1270.	.8030	.8940	1041.	1.030	1063.
4	-1350.	.8130	.9130	-106R.	-1.060	1171.
5	1250.	.8160	.8540	1050.	1.040	1085.
7	1160.	.4050	.7660	1014.	1.030	1133.
A	1220.	.9120	.8410	1032.	1.030	1072.
11	1230.	.8000	.Ri90	-97A.	1.020	1101.
13	1110.	.7710	.7A60	1032.	1.020	1016.
14	1150.	.8190	.7780	996.	1.050	1073.
15	1290.	.8390	.8570	1032.	1.040	1149.
17	1280.	.8440	.8750	1023.	1.040	10A1.

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MODE F

UNIT	CORR FU FL LBM/HR	COR CB F/A CO		R TT7 COR	THRUST
****	*******				
2	1269.	.8060	.8980	1045.	1064.
. 4	-1349.	.8160	.9160	-1072.	1173.
5	1262.	.7990	.8370	1029.	1084.
7	1164.	.7930	.7550	999.	1132.
8	1225.	.8040	.8330	1022.	1071.
11	1233.	.7990	.8170	-976.	1102.
13	-1117.	.7640	.7800	1023.	1018.
14	1156.	.8130	.7720	-98R.	1075.
15	1296.	.8340	.8520	1026.	1151.
17	1287.	.8460	.8720	1020.	1086.

JT3D-7 . 1800 HOUR TEST SERIES .

MODE 8

NOX CONC	NO CONC	HC CONC	CO CONC	COZ CONC	UNIT

9.9	9.1	607.4	954.4	1.492	2
9.8	6.1	533.3	916.2	1.449	4
10.1	10.0	554.A	911.4	1.448	5
9,3	5.4	515.2	862.4	1.442	7
9.7	6.6	511.1	838.0	1.461	A
9.8	4.9	549.9	901.3	1.417	11
10.1	9.4	-550.0	-683.1	1.478	13
9.0	6.5	567.9	890.6	1.453	14
9.0	5.5	595.7	945.9	1.480	15
8.7	6.1	620.6	987.5	1.489	17

JT30-7 • 1800 HOUR TEST SERIES •

MODE 8

UNIT	COZ EI	CO EI	HC EI	NO EI LB/KLB FU	NOX ET	SMK NUMBER FRONT SIDE

2	2638.	114.33	125.00	1.80	1.95	22.28
4	2693.	108.37	108.36	1.18	1.90	22.19
5	2681.	107.40	112.33	1.93	1.95	20.31
7	2706.	103.00	105.70	1.05	1.82	20.18.
8	2717.	99.21	103.94	1.29	1.88	26.04
11	2674.	108.28	113.49	.97	1.93	-26.62
13	-2893.	-85.10	-47.0R	1.91	2.07	-7.45
14	2678.	104.45	114.43	1.25	1.74	22.02
15	2664.	108.34	117.21	1.04	1.70	22.01
17	2649.	111.83	120.73	1.13	1.62	22.73

MONE 8

UNIT	FCO	FHC	FNO	STD FCO	STD FHC	STD FNO
	X100	X100	XIOO	X100	X100	X100
2	-1990	.0760	15.3030	.1990	.0770	17.3950
. 4	.2030	.0A20	15.5950	.2040	.0830	17.7270
5	. 2030	0870	15.0750	.2000	.0780	17.4540
. 7	2050	0870	15.4040	.2020	.0810	17.6020
8	.2010	.0810	15.1950	.2000	.0770	17.4150
11	.2010	.0800	15.3940	.2010	.0790	17.5110
13	.1990	.0780	15.1880	.1970	.0740	17.2450
14	•2010	.0810	15.2970	.2000	.07A0	17.4280
15	.2040	. 0850	15.5350	.2030	.0820	17.6610
17	.2010	.0800	15.4260	.2000.	.0780	17.4600

MODE 8

UNIT	NREC CO EI	NREC HC EI	NRE CNO EI	NR CNOX EI	SMK NUMBER CORRECTED
	********			********	
2	114.05	122.75	5.20	2.38	22.28
4	108.10	106.40	1.44	2.32	22.19
5	109.15	124.60	2.40	2.42	20.31
7	104.19	113,81	1.29	2.23	20-18
8	99.95	109.13	1.59	2.31	26.04
11	108.57	114.91	1.19	2.36	-26.62
13	-85.82	-49.40	2.33	2.52	-7.45
14	105.25	119.46	1.53	2.13	22.02
15	108,99	121.16	1.27	2.08	22.01
17	112.44	123.44	1.37	1.97	22.73

JT30-7 * 2400 HOUR TEST SERIES *

UNIT	TSO HR	TSA HR	AMR TEMP	AMR PRESS	AMR HUMID
2	21381.	2418.	523.2	29.94	.008400
4	19106.	2418.	523.2	29.95	.008400
5	18902.	2313.	524.7	29.92	.011170
7	19579.	2373.	524.7	29.92	.011170
Ą	20503.	2300.	524.7	29.92	.011170
11	18208.	2443.	518.2	30.01	.0084R0
13	19720.	2355.	522.7	30.10	.009660
14	20967.	2354.	527.7	30.10	.009660
15	21346.	2354.	522.7	30.11	.009660
17	28197.	2332.	520.2	29.89	.011690

MODE 1

UNIT	N1 SPEED PER CENT	NZ SPFED PER CENT	COPR NI PER CENT	CORR NZ

2	32.60	59.60	32.46	59.34
٠.	33.50	60.50	33.36	60.24
5	34.00	61.00	33.81	60.65
7	32.00	60.00	31.82	59.66
8	-31.00	-59.00	-30.82	-58.66
11	32.00	60.00	32.02	60.03
13	32.00	60.00	31.88	59.77
14	32.50	61.00	32.38	60.77
15	34.00	60.00	33.87	59.77
17	32.50	59.50	32.45	59.41

MODE 1

UNIT	FUFL FLOW LBM/HR	CH F/4 X100	PERF F/A	TT7 DEG R	EPR	THRUST LRF
2	1240.	.8680	.8960	1032.	1.030	997.
4	1300.	.8500	.9270	1068.	-1.070	1036.
5	1250.	.8850	.8760	1064.	1.010	1067.
7	1170.	9410	.8440	1050.	1.030	1008.
Ą	1180.	9600	.8680	1032.	1.020	974.
11	1240.	.8680	.4800	1023.	1.020	1019.
13	-1130.	.8220	.8100	1050.	1.010	1006.
14	1220.	.8430	.8360	1032.	1.010	1069.
15	1300.	.8910	.9360	1059.	1.020	1006.
17	1260.	.9170	.9140	1032.	1.030	1001.

MODE 1

TINU	CORR FU FL LBM/HR	COR CB F/A CO		R TT7 COR	THRUST LBF
2	1246.	•8600	.8880	1023.	998•
4	1307.	.8430	.9190	1059.	1037.
5	1257.	-8750	.8660	1055.	1067.
7	1177.	9300	.8340	1038.	1008.
8	1187.	9490	.8580	1020.	974.
11	1243.	.8690	.8810	1024.	1022.
13	-1141.	.8150	.8040	1042.	1012.
14	. 1232.	.8370	.8290	1024.	1075.
15	1313.	.8840	.9280	1051.	1012.
17	1261.	.9140	.9120	1029.	1000.

MODE 1

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC

2	1.541	954.8	585.A	4.0	8.2
4.	1.527	925.4	523.A	4.4	10.1
5	1.572	973.9	611.7	7.0	9.7
7	-1.683	1020.8	619.5	6.1	R.1
8	-1.695	-1074.1	727.0	6.2	8,2
11	1.507	970.3	707.1	3.9	7,3
13	1.584	-657.1	-233.3	11.9	11.9
14	1.510	901.1	541.2	8.6	9.8
15	1.622	921.2	-499.9	8.7	10.5
17	1.579	-1097.2	743.9	6.3	10.0

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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MODE 1

TINL	COS EI	CO EI	HC EI LB/KLB FU	NO EI LB/KLB FU	NOX EI LB/KLB FU	SMK NUMBER FRONT SIDE
2	2682.	105.72	111.44	.73	1.49	13.73
4	2710.	104.53	101.64	.82	1.87	13.73
5	2691.	105.70	114.05	1.25	1.73	16.08
7	2699.	104.20	108.64	1.02	1.36	14.70
8	2649.	107.47	124.95	1.01	1.34	18.42
11	2623.	107.46	134.53	.71	1.33	20.65
13	-2907.	-76.75	-46.81	2.29	2.29	-5.07
14	2704.	102.70	105.96	1.61	1.83	16.45
15	-2746.	-99.30	-92,38	1.55	1.86	14.59
17	2601.	115.00	133.94	1.08	1.72	17.39

MODE 1

UNIT	FC0 X100	FHC X100	FNO X100	STD FCO	STD FHC	STO FNO
	********	*******	~~~~~~			
2	.1970	.0750	14.7320	.1950	.0720	17.1140
4	.2000	.0790	14.9060	.1980	.0750	17.3110
5	.2010	.0820	14.2530	.1990	.0770	17.4020
7	.1980	.0780	-14.0730	.1960	.0730	17.1930
8	1950	.0740	-13.8930	1930	0700	-16.9640
11	.1980	.0750	14.7020	.1980	.0750	17.2450
13	.1990	.0770	14.4850	.1970	.0740	17,2080
14	.2020	.0820	14.6720	.2000	.0780	17.4280
15	.1990	.0780	14.4910	.1970	.0740	17,2080
17	.1960	.0730	-13.7550	.1960	.0720	17.1290

MODE 1

UNIT	NREC CO EI LB/KLR FU	NREC HC EI	NRE CNO EI LB/KLB FU	NR CNOX EI LB/KLB FU	SMK NUMBER CORRECTED
2	106.53	116.67	.85	1.73	13.73
4	105.36	106.50	•96	2.17	13.73
5	106.71	121.10	1.52	2.12	16.08
7	105.19	115.32	1.25	1.66	14.70
8	108.49	132.60	1.24	1.64	18.42
11	107.62	134.58	.83	1.56	20.65
13	-77.59	-49.24	7.72	2.72	-5.07
14	103.82	111.47	1.91	2.18	16.45
15	-100.41	-97.23	1.84	2.21	14.59
17	115.19	135.71	1,35	2.14	17.39

MODE 2

UNIT	NI SPEED PER CENT	NZ SPEED PER CENT	CORR NI	CORR NZ
S	36,40	64.50	36.24	64.22
4	36.20	64.50	36.04	64.22
5	37.00	64.00	36.79	63.63
7	35.00	64.00	34.80	63.63
А	35.00	64.00	34.80	63.63
11	35.50	54.50	35.52	64.53
13	36.01	64.00	35.86	63.75
14	36.50	64.00	36.36	63.75
15	-34.00	64.00	-37.R5	63.75
17	36.00	64.00	35.95	63.91

MODE 2

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THPUST LRF
2	1380.	.8410	.8570	1050.	1.035	1322.
.4	1390.	.8380	.8700	1068.	-1.080	1322.
5	1350.	.8630	.8580	1068.	1.020	1281.
7	1320.	9080	.8460	-1086.	1.040	1281.
8	1370.	9210	.8600	1041.	1.030	1281.
11	1350.	.8320	.8220	1014.	1.020	1341.
13	1280.	.8420	.6.090	1068.	1.030	1282.
14	1320.	•7930	.8200	1032.	1.030	1282.
15	1430.	.8680	.9000	1059.	1.030	1281.
17	1380.	.8910	.8640	1034.	1.030	1302.

MODE 2

UNIT	CORR FU FL LRM/HR	COR CR F/A	COR PF F/A	CORR TT7 COR	THRUST LBF
	~~~~~~	~~~~~~			
5	1347.	.8340	.8500	1041.	1323.
4	1397.	.8310	.8630	1059.	1323.
5	1358.	•8530	.8480	1055.	1281.
7	1328.	.8970	.8360	1073.	1281 •
A	1374.	9100	.9500	1029.	1281.
11	1357.	.8330	.8230	1015.	1345•
13	1291.	.8350	.8030	1060.	1290.
14	1333.	.7870	.A140	1024.	1290.
15	1445.	.8610	.8930	1051.	1290•
17	1381.	.8880	.8620	1031.	1301.

MODE 2

UNIT	CO2 CONC	CO CONC	HC CONC	NO CONC	NOX CONC
		********			******
5	1.545	828.2	436.1	4.1	10.1
4	1.547	. A38.4	-405.0	5.0	11.2
5	1.569	901.6	491.8	7.9	10.9
7	-1.673	994.3	467.7	6.?	9.9
8	-1.685	928.2	502.3	6.5	10.4
11	1,500	847,2	521.2	4.2	9.0
13	-1.659	-550.0	-163.1	-13.6	13,6
14	1.456	-780.8	413.2	9.1	10.5
15	1.624	811.7	-371.7	10.4	12,2
17	1.592	-976,5	565.5	6.9	11.0

MODE 2

UNIT	COS ET	CO ET	HC ET	NO FI	NOX EI	SMK NUMBER
2	2771.	94.51	85.50	.7A	1.90	12.42
. 4	2784.	96.02	-79.69	.94	2.11	12.43
5	2745.	100.39	94.09	1.44	1.99	15.53
7	2779.	94.56	84.96	1.08	1.73	13.25
. 8	2761.	96.79	89.99	1.11	1.78	18.77
11	2723.	97.86	103.43	.79	1.72	19.84
13	-2970.	-62.65	-31.91	-2.55	2.55	-4.67
14	2771.	94.61	86.02	1.80	2.09	14.74
15	-2921.	-89.76	-70.61	1.89	5.55	14.30
17	2696.	105.29	104.75	1.22	1.95	16.29

MODE 2

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X100
2	.2140	.1020	15.8630	.2130	.0980	18.4710
4	.2140	.1020	15.8660	.2130	.09R0	18.4210
5	.2120	.0990	-14.9300	.2100	.0930	18,2250
7	.2120	.0990	-14.9300	.2100	.0930	18,2250
8	.2120	.0990	-14.9300	.2100	.0930	18,2250
11	.2140	.1000	15.7750	.2140	.1000	18.5250
13	.2130	.0990	15.3800	.2110	.0940	18,2650
14	.2130	.0990	15.3800	.2110	.0940	18,2650
15	.2130	.0990	15.3830	.2110	.0940	18.2650
17	.2120	.0970	-14.7090	.2110	.0950	18,3160

MODE S

UNIT	NREC CO FI		NRE CNO ET	the second secon	SMK NUMBER CORRECTED
		********			
2	95.25	89.63	.90	2.21	12.42
4	96.79	83,59	1.09	2.45	12.43
5	101.36	100.00	1.75	2.42	15.53
7	95.47	90,30	1.32	2.11	13.25
A	97.73	95,65	1.35	2.17	18.77
11	98.00	103,46	.93	5.05	19.84
13	-63.34	-33,59	-3.03	3.03	-4.67
14	95.65	90,56	2.14	2.49	14.74
15	-90.77	-74,38	2.24	2.63	14.30
17	105.46	106.17	1.52	2.42	16.29

MODE 3

UNIT	N1 SPEED PER CENT	N2 SPEED PER CENT	CORR NI	CORR N2
		PER CENT	PER CENT	PER CENT
5	102.00	101.70	101.56	101.26
4 .	101.60	101.50	101.16	101.06
5	100.30	100.20	-99.72	99.63
7	100.20	100.40	-99.63	99.82
8	101.00	101.50	100.42	100.92
11	101.00	103.00	101.05	103.05
13	101.90	103.00	101.51	102.61
14	103.00	103.00	102.61	102-61
15	103.00	100.00	102.61	99.62
17	102.00	100.50	101.85	100.36

MODE 3

UNIT	FUEL FLOW LRM/HR	CR F/A ×100	PERF F/A X100	TT7 DEG R	EPR	THRUST LAF
5	10300.	1.6300	1.4700	1428.	1.860	19711.
4	10220.	1.6460	1.4950	1482.	1.860	14705.
5	10230.	1.6340	1.4790	1464.	1.860	14724.
7	9950.	1.5450	1.4790	1446.	1.860	18724.
8	9830.	1.6000	1.3850	1392.	1.860	18724.
11	9970.	1.5430	1.4370	1446.	1.850	18544.
13	9900.	1.6390	1.4000	1419.	1.860	18612.
14	10020.	1.6350	1.4130	1410.	1.860	18612.
15	10120.	1.6620	1.4450	1446.	1,860	18606.
17	10240.	1.5810	1.4820	1464.	1.860	18743.

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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MODE 3

UNIT	CORR FU FL LRM/HR	COR CB F/A C	OR PF F/A	CORR TT7 COR	THRUST LBF
	*******	******			
2	10351.	1.6160	1.4570	1415.	18724.
4	10275.	1.6320	1.4720	1469.	18724.
5	10289.	1.6150	1.4620	1447.	18724.
7	10007.	1.5270	1.4130	1429.	18724.
8	9887.	1.5810	1.3690	1376.	18724.
11	9995.	1.5440	1.4380	1447.	18600.
13	9998.	1.6260	1.3900	1408.	18724.
14	10119.	1.6230	1.4020	1399.	18724.
15	10223.	1.6490	1.4340	1435.	18724.
17	10245.	1.5760	1.4780	1459.	18724.

MODE 3

UNIT	CO2 CONC FER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
2	3.439	19.8	6.0	107.3	104.0
4 .	3.473	21.4	6.7	106.8	103.9
5	3.454	16.1	4.5	104.4	104.0
7	3.263	18.0	5.1	100.2	96.9
A	3.340	20.3	5.5	107.8	104.6
11	3.257	19.6	7.4	102.A	. 99,2
13	3.461	14.8	3.9	-177.3	-174.9
14	3.452	17.8	6.6	110.4	105.5
15	3.510	19.2	5.6	99.7	96.2
17	3.329	22.5	5.2	95.4	93.3

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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MODE 3

NIT	CO2 E1	CO EI	HC EI LB/KLB FU	NO EI LB/KLB FU	NOX EI LB/KLB FU	SMK NUMBER FRONT SIDE
5	3150.	1.16	•61	10.28	10.28	48.83
4	3150.	1.23	.67	10.13	10.13	49.67
5	315A.	.94	,45	9.98	9.98	44.11
7	3157.	1.11	•54	10.13	10.13	47.64
8	3157.	1.21	•56	10.52	10.52	48.18
11	3156.	1.21	.78	10.41	10.41	51.68
13	3153.	.86	•39	-16.89	-16.89	-15.95
14	3152.	1.03	.66	10.54	10.54	49.03
15	3153.	1.10	.55	9.36	9.36	50.20
17	-3145.	1.35	.54	9.43	9.43	46.71

MODE 3

UNIT	FC0 X100	FHC X100	FNO X100	STD FCO X100	STD FHC X100	STD FNO X100
2	94.1720	85.6850	A2.0620	87.4860	79.3480	94.6390
4	95.2860	A2.4320	81.3110	AR.4370	76.3060	93.7570
5	80.5490	63.3130	-72.3600	73.1760	57.3730	87.5530
7	69.1630	65.9020	-73.0600	-63.2110	59.7020	88.3940
A	86.5700	A1.9950	76,9930	78.7040	74.1670	93. 190
11	90.7760	111.8620	87.4920	91.4630	112.2210	102.8300
13	110.5970	111.5300	85.3860	103.0170	103.0270	100.7480
14	109.8390	111.5300	A5.3860	102.3280	103.0270	100.7480
15	83.9790	61.8600	-74.1400	78.3260	57.2720	87.5160
17	74.9620	67.9060	-72.9740	73.3800	66.3570	90.6660

MODE 3

NIT NREC CO EI NREC HC EI NRE CNO EI NR CNOX EI SMK NUMBER LB/KLB FU LB/KLB FU LB/KLB FU CORRECTED  2 1.24 .65 11.85 11.85 48.83 4 1.33 .72 11.68 11.68 49.67 5 1.03 .50 12.08 12.08 44.11 7 1.21 .59 12.26 12.26 47.64 8 1.33 .62 -12.73 12.73 48.18 11 1.20 .78 12.24 12.24 51.68 13 .92 .42 -19.93 -19.93 -15.95 14 1.11 .72 12.44 12.44 49.03 15 1.16 .60 11.05 11.05 50.20 17 1.38 .55 11.71 11.71 46.71						
2 1.24 .65 11.85 11.85 48.83 4 1.33 .72 11.68 11.68 49.67 5 1.03 .50 12.08 12.08 44.11 7 1.21 .59 12.26 12.26 47.64 8 1.33 .62 -12.73 12.73 48.18 11 1.20 .78 12.24 12.24 51.68 13 .92 .42 -19.93 -19.93 -15.95 14 1.11 .72 12.44 12.44 49.03 15 1.16 .60 11.05 11.05 50.20	MIT					
4 1.33 .72 11.68 11.68 49.67 5 1.03 .50 12.08 12.08 44.11 7 1.21 .59 12.26 12.26 47.64 8 1.33 .62 -12.73 12.73 48.18 11 1.20 .78 12.24 12.24 51.68 13 .92 .42 -19.93 -19.93 -15.95 14 1.11 .72 12.44 12.44 49.03 15 1.16 .60 11.05 11.05 50.20			*****		*******	*****
4 1.33 .72 11.68 11.68 49.67 5 1.03 .50 12.08 12.08 44.11 7 1.21 .59 12.26 12.26 47.64 8 1.33 .62 -12.73 12.73 48.18 11 1.20 .78 12.24 12.24 51.68 13 .92 .42 -19.93 -19.93 -15.95 14 1.11 .72 12.44 12.44 49.03 15 1.16 .60 11.05 11.05 50.20						
5       1.03       .50       12.08       12.08       44.11         7       1.21       .59       12.26       12.26       47.64         8       1.33       .62       -12.73       12.73       48.18         11       1.20       .78       12.24       12.24       51.68         13       .92       .42       -19.93       -19.93       -15.95         14       1.11       .72       12.44       12.44       49.03         15       1.16       .60       11.05       11.05       50.20	5	1.24	.65	11.85	11.85	48.A3
7 1.21 .59 12.26 12.26 47.64 8 1.33 .62 -12.73 12.73 48.18 11 1.20 .78 12.24 12.24 51.68 13 .92 .42 -19.93 -19.93 -15.95 14 1.11 .72 12.44 12.44 49.03 15 1.16 .60 11.05 11.05 50.20	4	1.33	.72	11.68	11.68	49.67
7 1.21 .59 12.26 12.26 47.64 8 1.33 .62 -12.73 12.73 48.18 11 1.20 .78 12.24 12.24 51.68 13 .92 .42 -19.93 -19.93 -15.95 14 1.11 .72 12.44 12.44 49.03 15 1.16 .60 11.05 11.05 50.20	-					
8 1.33 .62 -12.73 12.73 48.18 11 1.20 .78 12.24 12.24 51.68 13 .92 .42 -19.93 -19.93 -15.95 14 1.11 .72 12.44 12.44 49.03 15 1.16 .60 11.05 11.05 50.20	5	1.03	•50	12.08	12.08	44.11
8 1.33 .62 -12.73 12.73 48.18 11 1.20 .78 12.24 12.24 51.68 13 .92 .42 -19.93 -19.93 -15.95 14 1.11 .72 12.44 12.44 49.03 15 1.16 .60 11.05 11.05 50.20	7	1.21	50	12 26	12.26	47 44
11     1.20     .78     12.24     12.24     51.68       13     .92     .42     -19.93     -19.93     -15.95       14     1.11     .72     12.44     12.44     49.03       15     1.16     .60     11.05     11.05     50.20		1061	•37	12.20	12.00	41.00
13	8	1.33	.62	-12.73	12.73	48.18
13	11	1.20	70	12 24	24	E1 48
14     1.11     .72     12.44     12.44     49.03       15     1.16     .60     11.05     11.05     50.20	11	1020	•10	12.24	12.24	21.02
14     1.11     .72     12.44     12.44     49.03       15     1.16     .60     11.05     11.05     50.20	13	.92	.42	-19.93	-19.93	-15-95
15 1.16 .60 11.05 11.05 50.20						,
	14	1.11	.72	12.44	12.44	49.03
	15	1 16	40	** **		50.00
17 1.38 .55 11.71 11.71 46.71	13	1.10	•60	11.05	11.05	50.20
	17	1.38	•55	11.71	11.71	46.71

MODE 4

UNIT	N1 SPEED	NZ SPEED	CORP NI	CORR NZ
	PER CENT	PER CENT	PER CENT	PER CENT
2	96.50	99.20	96.09	98.77
-	40.30	44.711	40.04	70.11
4	96,20	99.10	95.79	98.67
5	97.00	99.00	96.44	98.43
7	96.00	99.50	95.45	98.93
Я	94.00	100.00	95.45	99.43
1:	96.00	100.00	96.05	100.05
13	97.00	101.00	96.63	100.61
14	97.00	100.50	96.63	100-11
15	97.00	-97.56	96.63	-97-13
17	96.00	98.50	95.86	98.36

MODE 4

UNIT	FUEL FLOW	CB F/A X100	PERF F/A	TT7 DEG R	EFR	THRUST
				*******		
2	8490.	1.4670	1.3540	1356.	1.660	15815.
4	8350.	1.4540	1.3490	1392.	1.660	15810.
5	8400.	1.4570	1.3410	1356.	1.660	15820.
7	8200.	1.3810	1.3000	1338.	1.660	15826.
. 8	8200.	1.4210	1.3040	1347.	1.660	15826.
11	8160.	1.3580	1.2900	1338,	1.660	15779.
13	8270.	1.4650	1.2990	1329.	1.660	15731.
14	6230.	1.4230	1.2790	1302.	1.660	15731.
15	9210.	1.4750	1.3020	1356.	1.660	15726.
17	8400.	1.4070	1.3420	1356.	1.660	15842.

#### MODE 4

UNIT	CORR FU FL LRM/HR	COR C9 F/A C X170	OR PF F/A (	ORR TTT COR	THRUST LRF
S	A532.	1.4550	1.3430	1344.	15826.
4	8395.	1.4420	1.3370	1380.	15826.
5	8449.	1.4410	1.3250	1340.	15826•
7	8247.	1.3650	1.2850	1322.	15826·
A	8247.	1.4050	1.2900	1331.	15826.
11	8181.	1.3600	1.2910	1339.	15826•
13	8352.	1.4540	1.2890	1319.	15826.
14	A311.	1.4120	1.2700	1292.	15826.
15	9294.	1.4540	1.2920	1345.	15826·
17	8404.	1.4930	1.33A0	1352.	15826.

MODE 4

UNIT	COZ CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
2	3.091	24.4	3.3	84.6	84.6
4	3.062	24.6	4.1	87.3	87.6
5	3.076	23.4	2.9	84.2	85.4
7	2.911	24.4	3,2	77.6	77.2
8	2.997	23.2	3.1	81.0	80.4
11	2.863	24.0	4.5	77.6	76.3
13	3.089	-16.5	4.4	-132.3	-130.5
14	2.998	20.0	3.4	83.6	82.7
15	3.109	25.4	2.9	-104.0	-104.7
17	2.956	32.5	2.6	72.6	73.8

MODE 4

UNIT	C02 FT	CO ET	HC FT	NO FI	NOX ET	SMK NUMBER
	LB/KLR FU	LB/KLB FU	LA/KLA FU	LA/KLA FU	LR/KLB FU	FRONT STDE
		*******		*******		********
2	3150.	1.58	•36	9.01	9.02	49.74
4	3150.	1.61	.46	9.38	9.4?	50.00
5	3157.	1.53	•12	9.04	9.17	47.94
7	3157.	1.68	.37	A.80	8.80	48.49
A	3157.	1.55	•35	A.92	8.92	49.21
11	3156.	1.68	•54	9.95	8.95	51.56
13	3153.	-1.07	.49	-14-12	-14.12	-17.01
14	3153.	1.34	.19	9.19	9.19	50.20
15	3152.	1.64	.12	-11.02	-11.09	52.46
17	-3145.	2.20	.30	A.07	8.21	47.89

MODE 4

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCC X100	STD FHC X100	STD FNO
s	52.9580	52.0270	72.7960	49.7220	48.3070	84.0060
4	51.2350	51.0110	72.4580	48.1240	47.3400	83.5980
5	50.8790	49.6600	68.2540	46.8380	45.0770	82,6180
7	47.1390	54.9770	69.9460	43,5590	49,8690	84.6510
8	53.0750	60.8190	71.6640	48.9070	55,1290	86.7170
11	48.1360	62.2520	76.0270	48.4140	62,4310	89.3480
13	-63.9730	75.4530	77.7540	-60.1650	69,8330	91.7840
14	56,4310	68.3220	75.9230	53.1820	63.2630	89,6330
15	44.8270	36.7420	-65.3400	42.7480	-34.0940	-77.1700
17	44.4300	45.3900	-66.2370	43.6250	44.3860	82.3090

MODE 4

	NP CNOX ET		Commence of the commence of		UNIT
CURRECTEN	LR/KLR FU	FHAKEH EU	LHYKER FU	LB/KL9 FU	
49.74	10.40	10.40	.39	1.68	S
50.00	10.87	10.43	.49	1.71	4
47.94	11.10	10.94	.35	1.66	5
48.49	10.65	10.45	.41	1.82	7
49.21	10.79	10.79	.39	1.69	A
51.56	10.51	10.51	.54	1.67	11
-17.01	-16.67	-16.67	.53	-1.14	13
50.20	10.85	10.85	.47	1.42	14
52.46	-13.10	-13.01	.35	1.74	15
47.89	10.20	10-03	.31	-2.24	17

### HODE 5

UNIT	NI SPEED	N2 SPEED	CORR NI	CORR NZ
	PER CENT	PER CENT	PER CENT	PER CENT
2	97.00	94.90	86.63	94.49
4	86.80	94.70	86.43	94.29
5	87.00	94.50	86.50	93.96
7	86.00	96.00	A5.51	95.45
6 .	85.00	95.50	85.51	94.95
11	55.50	95.50	85.54	95.55
13	86.00	95.00	85.67	95.63
14	-88.00	96.00	-87.66	95.63
15	86.00	-92.50	85.67	-92.15
17	37.00	94.00	86.87	93.86

MODE 5

UNIT	FUFL FLOW LRM/HR	CB F/A X100	PERF F/A X100.	TT7 DEG R	EPR	THRUST LAF
2	5970.	1.2360	1.1730	1230.	1.400	11193.
4	5930.	1.2130	1.1730	1248.	1.400	11189.
5	5790.	1.2310	1.1470	1248.	1.400	11200.
7	5630.	1.1780	1.0990	1212.	1.400	11200.
R	5640.	1.2090	1.1050	1221.	1.400	11200.
11	5670.	1.1490	1.1180	1515.	1.390	10935.
13	5570.	1.7070	1.0810	1212.	1.400	11133.
14	5840.	1.2200	1.1330	1212.	1.400	11133.
15	5500.	1.2060	1.0710	1221.	1.400	11129.
17	5980.	1.2200	1.1770	1230.	1.400	11211.

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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### MODE 5

JNIT	CORR FU FL LRM/HR	COR CR F/A C	COR PF F/A X100	CORR TT7 COR	THRUST LBF
2	6000.	1.2250	1.1630	1219.	11200.
4	5962.	1.2030	1.1630	1237.	11200.
5	5823.	1.2170	1.1340	1233.	11200.
7	5662.	1.1650	1.0870	1198.	11200.
8	5673.	1.1950	1.0920	1207.	11200.
11	5684.	1.1500	1.1190	1213.	10968.
13	5625.	1.1980	1.0730	1202.	11200.
14	589R.	1.2110	1.1250	1202.	11200.
15	5556.	1.1970	1.0630	1211.	11200•
17	5983.	1.2170	1.1740	1226.	11200.

### JY30-7 . 2400 HOUR TEST SERIES .

### MODE 5

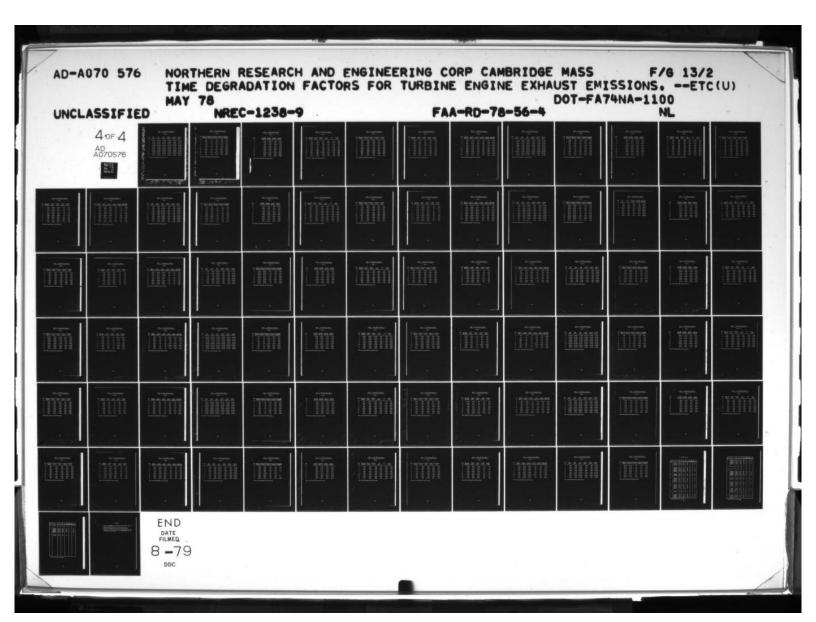
UNIT	COZ CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
					******
5	2.593	57.3	5.9	49.7	55.4
4	2.545	52.3	3.4	52.3	57.1
5.	2.588	51.7	2.4	51.8	56.0
7	.2.475	57.5	3.2	46.5	50.9
•	2 5/2				<b>51.0</b>
8.	2.543	45.5	2.7	48.5	51.9
11	2.413	50.0	3.7	47.2	51.0
••	20113	30.0			J
13	2.536	-24.9	5.6	-77.6	-74.2
14	2.563	45.4	3.1	53.7	56.8
15	2.530	69.1	3.5	-70.1	-76.8
17	2.556	-64.7	2.4	45.9	51.9

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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MODE 5

".NIT	COS E1	CO EI	HC ET	NO EI	NOX EI	SHK NUMBER
	LB/KLR FU	LB/KLB FU	LB/KLB FU	LB/KLB FU	LB/KLB FU	FRONT SIDE
-						
S	3146.	4.4?	.38	6.31	7.03	47.84
4	3146.	4.11	.45	6.75	7.37	50.13
5	3153.	4.01	.37	6.60	7.13	49.61
7	3152.	4.66	.44	6.19	6.77	48.21
8	-3154.	3,59	•36	6.29	6.73	50.26
11	3152.	4.15	•53	6.45	6.96	50.84
13	3151.	-1.97	.76	-9.44	-9.63	-13.82
14	3149.	3.55	.41	6.90	7.29	51.28
15	3146.	5.47	.48	-9.11	-9.98	49.87
17	-3140.	5.06	•32	5,90	5.67	50.46



MODE 5

UNIT	FC0 X100	FHC ×100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO
2	23.1460	20.2410	57.7730	21.9990	18.8750	66.7370
4	21.9540	19.3310	57.1260	20.8780	18.0190	65.9770
5	21.8970	18.2440	53.3970	20.4860	16.6600	64.7130
7	24.0820	25.8010	58.1450	22.5480	23.5140	70.4480
A	23.7800	23.0230	54.5380	22.2460	20.9960	68.5120
11	22.2600	23.9770	60.2740	22.3520	24.0330	70.8270
13	25.2350	26.3550	60.2220	24.0270	24.5030	71.1650
14	25.7000	26.3550	60.2220	24.4600	24.5930	71.1450
15	-17.1560	-11.8430	-49.4850	-16.3760	-11.0390	-58.5960
17	20.5820	16.6390	-51.7740	20.2720	16.2950	64.3590

MODE 5

INIT	NREC CO EI LB/KLB FU	NREC HC EI	NRE CNO EI LR/KLR FU		
2	4.65	.41	7.28	8.12	47.84
4	4.33	.49	7.80	A.52	50.13
5 .	4.29	.40	8.00	8.65	47.61
7	4.98	.48	7.50	8.21	48.21
8 .	3.84	.40	7.52	8.15	50.26
11	4.14	.53	7.58	8.18	50.84
13	-2.07	.82	-11.15	-i1.38	-13.82
14	3.73	.44	8.16	8.62	51.28
15	5.73	.51	-10.77	-11.80	49.87
17	5.14	.33	7.33	8.29	50.46

NOTE- MINUS SIGNS DENOTE OUTLYING VALUES

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MODE 6

UNIT	NI SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR NZ
••••	********	~~~~~~		******
2	71.50	87.50	71.19	87.12
4	70.20	A7.20	69.90	86.82
5	71.00	A7.00	70.59	86.50
7	68.00	88.50	67.61	87.99
8	69.00	AA.00	68.60	87.50
11	69.50	88.00	69.53	88.04
13	70.00	88.00	69.73	87.66
14	-74.00	-90.00	-73.72	-89.65
15	68.50	-85.00	68.24	-84.67
17	70.00	86.50	69.90	86.38

MODE 6

UNIT	ENET EFUM	CR F/A X100	PFRF F/A	TT7 PFG R	EPR 1	HRIIST LAF
S	3500.	.9630	1.0150	1122.	1.170	5631.
4	3420.	.9410	.9910	1155.	1.170	5629.
5.	3310.	.9320	.9600	1122.	1.170	5635.
7	3210.	.9350	.9240	1104.	1.170	5635.
A	3160.	.9250	.9100	1104.	1.170	5635.
11	3270.	•9130.	.9470	j113.	1.170	561A.
13	3200.	•9050	.9160	1104.	1.170	5601.
14	-3630.	.9820	-1.0390	1104.	1.170	5601.
15	3180.	.9680	.9100	1104.	1.170	5599.
17	3740.	.9640	.9620	-1104.	1.170	5641.

MODE 6

UNIT	CORR FU FL LBM/HR	COR CO F/A	COR PF F/A	CORR TT7 COR	THRUST LBF
	*********	********	********		
2	3517.	.9540	1.0050	1112.	5635.
4	343R.	.9330	.9830	1112.	5635.
5	3329.	.9210	.9490	1109.	5635.
7	3229.	.9250	.9130	1091.	5635.
8	3178.	.9140	.8990	1091.	5635.
11	3278.	.9140	.9430	1114.	5635.
13	3232.	.8980	.9090	1095.	5635.
14	-3666.	.9740	-1.0310	1095.	5635.
15	3213.	.9610	.9030	1095.	5635.
17	3341.	.9610	.9600	1101.	5635.

### JT30-7 . PAGE HOUR TEST SERIES .

400E 6

UNIT	COR CONC	CO CONC	HC CONC	NO CONC	NOX CONC
	*******			******	
S	1.995	197.2	16.1	22.7	30.7
4	1.948	193.6	18.1	25.3	31.1
5	1.976	197.1	15.9	30.1	31,3
7	1.944	169.7	14.9	20.1	27.7
A	1.924	153.8	11.7	25.5	27.9
11	1.499	146.8	12.1	72.9	29.3
13	1.891	-63.7	-4.R	12.3	34,2
14	2.044	146.3	10.0	28.6	33.0
15	2.006	205.8	19.7	34.6	-47.2
17	1.908	176.0	13.2	25.4	30.6

MODE 6

UNIT	COS EI	CO EI	HC EI LB/KLB FU	NO EI LR/KLR FU	NOX EI LR/KLB FU	SMK NUMBER FRONT SIDE
	~~~~~~				*****	********
2	3116.	19.11	2.75	3.70	5.01	42.78
. •	3114.	19.70	3,16	4.22	5.20	44.16
5	3122.	19.23	2.98	5.09	5.29	44.31
7 .	3126.	17.37	2.62	3.42	4.65	42.63
8	3130.	15.92	2.09	3.77	4.74	44.94
11	3130.	15.40	2.19	3.95	5.06	45.75
13	-3143.	-6,73	88	5.61	5.94	-8.44
14	3129.	14.26	1.67	4.57	5.27	47.44
15	3115.	20.34	3,35	5.62	-7.66	43.06
17	3115.	17.47	2.26	4.14	4.99	40.79

MODF 6

UNIT	FC0 X100	FHC X100	FN0 X100	STO FCO X100	STD FHC X100	STD FNO X100
2	7.4720	3.6530	37.9940	7.1890	3.4320	43.9690
4	7.0840	3.4090	37.3660	6.8180	3.2020	43.2330
5	6.8400	3.2180	34.9310	6.5090	2.9690	42.4440
7	A.0560	4.5500	37.9990	7.6560	4.1890	46.1500
8	7.5620	4.0590	36.9510	7.1920	3.7400	44.8960
11	7.5930	4.2310	39.3910	7.6120	4.2370	46.2780
13	7.4950	4.1490	38.2830	7.2090	3.8860	45.3160
14	-10.0750	-6.6880	-43.0360	-9.6790	-6.2520	-50.9200
15	5.7290	2.0370	-32.1860	-5.5190	-1.9120	-3A.1160
17	6.7530	2.9360	33.8780	6.6760	2.8820	42.1390

MODE 6

UNIT	NREC CO EI	NREC HC EI		NR CNOX ET	SMK NUMBER
	E07KER FO	CHINED PO	FOLKED LO	FOLKED LO	CURRECIED
2	19.86	2.92	4.29	5.80	42.78
4	20.46	3,36	4.89	6.02	44.16
5	20.20	3,23	6.18	6.43	44.31
7	18.27	2.45	4.15	5.65	42.63
A	16.74	2.27	4.5A	5.76	44.94
11	15.36	2.18	4.64	5.94	45.75
13	-6.99	93	6.64	7.03	-8.44
14	14.84	1.78	5.41	6.24	47.44
15	21.11	3.57	6.66	-9.07	43.06
17	17.67	2.30	5.15	6.20	40.79

MODE 7

N1 SPEED N2 SPEED CORR N1 CORR N2 PER CENT PER C					
2 35.50 63.50 35.35 63.23 4 35.60 64.00 35.45 63.72 5 36.00 64.00 35.79 63.63 7 -34.00 64.00 -33.81 63.63 8 35.00 64.00 34.80 63.63 11 -34.00 63.50 -34.02 63.53 13 35.00 64.00 34.87 63.75 14 36.00 64.00 35.86 63.75 15 -37.00 64.00 36.86 63.75	UNIT	NI SPEED	NS SPEED	CORR NI	CORR NS
2 35.50 63.50 35.35 63.23 4 35.60 64.00 35.45 63.72 5 36.00 64.00 35.79 63.63 7 -34.00 64.00 -33.81 63.63 8 35.00 64.00 34.80 63.63 11 -34.00 63.50 -34.02 63.53 13 35.00 64.00 34.87 63.75 14 36.00 64.00 35.86 63.75 15 -37.00 64.00 36.86 63.75		PER CENT	PER CENT	PER CENT	PER CENT
4 35.60 64.00 35.45 63.72 5 36.00 64.00 35.79 63.63 7 -34.00 64.00 -33.81 63.63 8 35.00 64.00 34.80 63.63 11 -34.00 63.50 -34.02 63.53 13 35.00 64.00 34.87 63.75 14 36.00 64.00 35.86 63.75 15 -37.00 64.00 36.86 63.75		••••••			
5 36.00 64.00 35.79 63.63 7 -34.00 64.00 -33.81 63.63 8 35.00 64.00 34.80 63.63 11 -34.00 63.50 -34.02 63.53 13 35.00 64.00 34.87 63.75 14 36.00 64.00 35.86 63.75 15 -37.00 64.00 36.86 63.75	2	35.50	63.50	35.35	63.23
7 -34.00 64.00 -33.81 63.63 8 35.00 64.00 34.80 63.63 11 -34.00 63.50 -34.02 63.53 13 35.00 64.00 34.87 63.75 14 36.00 64.00 35.86 63.75 15 -37.00 64.00 36.86 63.75	. 4	35.60	64.00	35.45	63.72
35.00 64.00 34.80 63.63 11 -34.00 63.50 -34.02 63.53 13 35.00 64.00 34.87 63.75 14 36.00 64.00 35.86 63.75 15 -37.00 64.00 36.86 63.75	5	36.00	64.00	35.79	63.63
11 -34.00 63.50 -34.02 63.53 13 35.00 64.00 34.87 63.75 14 36.00 64.00 35.86 63.75 15 -37.00 64.00 36.86 63.75	. 7	-34.00	64.00	-33.81	63.63
13 35.00 64.00 34.87 63.75 14 36.00 64.00 35.86 63.75 15 -37.00 64.00 36.86 63.75	• •	35.00	64.00	34.80	63.63
14 36.00 64.00 35.86 63.75 15 -37.00 64.00 36.86 63.75	11	-34,00	63.50	-34.02	63.53
15 -37.00 64.00 36.86 63.75	13	35.00	64.00	34.87	63.75
	14	36.00	64.00	35.86	63.75
17 35.00 64.00 34.95 63.91	15	-37.00	64.10	36.86	63.75
	17 .	35.00	64.00	34.95	63.91

MODE 7

UNIT	FUEL FLOW LRM/HR	CR F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LRF
2	1300.	.8070	.8250	1032.	1.040	1251.
4	1350.	.7700	.A500	1050.	-1.075	1286.
5	1300.	.7830	.8200	1050.	1.020	1281.
7	1170.	.7880	.7310	1032.	1.030	1281.
8	1220.	.7990	.7690	1050.	1.030	1281.
11	1240.	.7620	.7780	1014.	1.030	1270.
13	1180.	7130	.7360	1041.	1.030	1282.
14	1230.	•7540	.7610	1023.	1.030	1282.
15	1360.	.8410	.8520	1050.	1.030	1281.
17	1310.	.8340	.8200	1032.	1.030	1302.

MODE 7

UNIT	CORR FU FL LBM/HR	COR CB F/A C	COR PF F/A	CORR TT7 C	OR THRUST

s	1306.	.8000	.8170	1023.	1252.
4	1357.	.7630	.8430	1041.	1287.
5	1307.	.7740	.8100	1038.	1281.
7	1177.	.7790	.7230	1020.	1281.
А	1227.	.7900	.7600	1038.	1291.
11	1243.	.7630	.7/90	1015.	1274.
13	1192.	7080	.7310	1033.	1290•
14	1242.	.7480	.7550	1015.	1290•
15	1374.	.8340	.4460	1042.	1290.
17	1311.	.8310		1029.	1301.

MODE 7

UNIT	CO2 CONC	CO CONC	HC CONC	NO CONC	NOX CONC
	********	*****		********	
2	1.483	809.3	405.0	6.1	10.4
4.	1.422	788.5	357.1	6.9	10.8
5	1.434	813.0	415.3	10.1	11.2
7	1.437	806.4	436.6	5.5	9.0
8	1.478	773.9	394.6	7.6	10.2
11	1.382	793.3	442.5	6.3	10.0
13	1.384	-597.6	-158.8	11.2	11.2
14	1.393	740.1	364.0	10.3	10.7
15	-1.577	781.5	-346.8	-18.9	-23.8
17	1,486	-949.6	528.7	7.6	10.0

MODE 7

UNIT	CO2 EI	CO EI LB/KLB FU	HC FT LR/KLR FU	NO FI LR/KLR FU	NOX EI LR/KLB FU	SMK NUMBER FRONT STOE
2	2775.	96,37	82.85	1.20	2. 3	12.42
••	2	2.2.5.	06.097	1020	2.,	16.46
4	2749.	98.39	76.55	1.41	2.20	12.94
5	2764.	99.74	87.53	2.04	2.26	14.71
7	2755.	98.38	91.52	1.10	',A1	14.72
8	2791.	93.03	A1.49	1.51	2.01	18.00
11	2740.	100.09	95.92	1.31	2.07	17.92
13	-2929.	-89.45	-36,73	2.47	2.47	-4.90
14	2749.	94.32	79.70	2.15	2.25	15.67
15	-2829.	-89.22	-68.02	-3.54	-4.47	14.47
17	2690.	109.40	104.65	1.44	1.90	15.50

MODE 7

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X1n0
2	.2100	.0950	15.5760	.2090	.0900	18.0890
4	•2120	.0990	15.7220	.2110	.0940	18.2550
5	.2120	.0990	-14.9300	.2100	.0930	18.2250
7	.2120	.0990	-14.9300	.2100	.0930	18.2250
8	.2120	.0990	-14.9300	.2100	.0930	18.2250
11	•2100	.0930	15.4900	.2100	.0930	18.1910
13	•2130	•0990	15.3800	.2110	.0940	18.2650
14	•2130	.0990	15.3800	.2110	.0940	18.2650
15	•2130	.0990	15.3830	.2110	.0940	18,2650
17	.2120	.0970	-14.7090	.2110	.0950	18,3160

MODE 7

UNIT	NREC CO FI LR/KLR FU	NREC HC EI LAZKLA FU	NRE CNO FT	NR CNOX ET	SMK NUMBER CORRECTED
2	97.12	4 86.82	1.39	2.34	12.42
4	99.17	80.28	1.64	2.5A	12.94
5	100.70	93.03	2.49	2.75	14.71
7	99.74	97.28	1.35	2.21	14.72
A	93.93	84.62	1.94	7.46	18.00
11	100.23	95.45	1.53	2.43	17.92
13	-81.74	-38.67	7.94	7.94	-4.90
14	95.16	A3.91	2.56	2.67	15.67
15	-90.22	-71.66	-4.21	-5.31	14.47
17	119.59	106.07	1.40	2.36	15.50

MODE 8

UNIT	NI SPEED PER CENT	NZ SPEED PER CENT	CORP NI PER CENT	CORR NZ PER CENT
5	33.00	60.00	32.96	-59.74
•	33,90	61.40	33.75	61-14
5	34.00	61.00	33.81	60.65
7	33.00	62.00	32.81	61.64
	33.00	61.00	32.81	60.65
11	32.50	60.50	32.52	60.53
13	-32.00	60.50	-31.6A	60.27
14	33.00	61.00	32.87	60.77
15	-35.00	61.50	-34.87	61.26
17	32.50	~59. 50	32.45	-59.41

MODE 8

UNIT	FUEL FLOW	CR F/A X100	PERF F/A	TT7 DEG P	FPR	THRUST LRF

s	1240.	.8320	.8960	1032.	1.030	1011.
4	1310.	.7930	.8970	1050.	-1.055	1101.
5	1230.	.9090	.A550	1050.	1.010	1667.
7	1150.	.7950	.7460	1032.	1.030	1138.
A	1190.	.8240	.A230	1041.	1.020	1067.
11	1190.	.7950	.8790	1023.	1.020	1055.
13	-1090.	7370	.7600	1032.	1.010	1033.
14	1170.	.7950	.7950	1014.	1.010	1069.
15	1200.	.8650	.9790	1041.	1.020	1104.
17	1230.	.8670	.9970	1032.	1.030	1001.

MODE 8

UNIT	CORR FU FL LRM/HR	COR CB F/A COM		TT7 COR	THRUST LRF
		00000000			
2	1246.	.8250	.8790	1023.	1011.
4	1317.	.7860	.8890	1041.	1102.
5	1237.	.8000	.8450	103A.	1067.
7	1157.	.7860	.7570	1020.	1138.
8	1197.	.8150	.8140	1029.	1067.
11	1193.	.7950	.6300	1024.	1058.
13	-1101.	7310	.7550	1024.	1039.
14	1182.	.7790	.7890	1006.	1075.
15	1313.	.8580	.8720	1033.	1111•
17	1231.	.8640	.9900	1029.	1000.

MODE 8

UNIT	COS COAC	CO COMC	HC CUNC	NO CUNC	NUX CONC
	PER CENT	PPM	PPM	PPM	PPM
	••••••	•••••	*********	*******	
2	1.494	901.8	513.3	5.1	9.6
4	1.437	A71.4	442.1	5.8	10.0
5	1.44R	894.9	521.3	9.3	10.3
7	1.431	857.6	493.3	5.1	8.7
A	1.497	A54.7	474.3	6.4	9.5
11	1.412	879.1	541.3	5.2	9.4
13	1.413	-659.8	-206.5	10.5	10.6
14	1.421	821.9	456.3	9.6	10.0
15	-1.594	860.9	-429.A	-22.2	-26.2
17	1.512	-1037.1	647.6	6.R	9.4

MODE 8

UNIT	CO2 EI	CO EI .LB/KL9 FU	HC EI LB/KLB FU	NO EI LB/KLB FU	NOX EI LB/KLB FU	SMK NUMBER FRONT SIDE
5	2711.	104.13	101.83	.96	1.82	13.19
. 4	2735.	105.56	92.02	1.16	2.00	13.84
5	. 2702.	106,.26	106.34	1.81	2.02	14.64
.7	2717.	103.61	102.39	1.01	1.72	14.34
	2743.	99.65	95.00	1.22	1.82	18.68
11	2685.	106,36	112.50	1.03	1.86	19.10
. 13	-2994.	-86.00	-46.23	2.25	2.26	-5.31
14	2734.	100.64	95.98	1.93	2.00	15.06
15	-2781.	95.56	-81.97	-4.05	-4.79	- 14-71
17	2633.	114.94	122.35	1.24	1.72	15.54

MODE 8

UNIT	FCO X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X100
5	.1980	.0770	14.8080	.1970	.0740	-17.2020
4	.2030	.0A30	15.0770	.2010	.0790	17.5090
5	.2010	.0R20	14.2530	.1990	.0770	17.4020
7	.2040	.0860	14.4340	.2030	.0910	17,6220
A	.2010	.0820	14.2530	.1990	.0770	17.4020
11	.1990	.9770	14.7960	.1990	.0770	17.3750
13	•2000	.0790	14.5790	.1990	.0760	17.3180
14	•2020	.0820	14.6720	.2000	.07A0	17.4280
15	.2040	.9840	14.7680	.2010	.0800	17.5380
17	1960	.0730	-13.7550	1960	0720	-17.1290

MODE 8

UNIT	NREC CO EI LB/KLB FU	NREC HC EI LB/KL3 FU	NRE CNO EI LB/XLR FU	NR CNOX EI LB/KLR FU	SMK NUMBER CORRECTED
2	104.93	106,62	1.12	2.12	13.19
4	106.40	96,43	1.35	5.35	13.84
5	107.28	112.90	2.21	2.46	14.64
7	104.61	108.73	1.24	2.10	14.34
A	100.60	100.87	1.49	2.22	18.68
11	106.51	112.55	1.21	2.18	19.10
13	-86.94	-48,63	2.67	7.69	-5.31
14	101.74	100.97	2.30	2.38	15.06
15	-96.63	-86,29	-4.81	-5.68	14.71
17	115.13	123,97	1.55	2.14	15.54

UNIT	TSO HR	TSB	AMR TEMP	AMB PRESS	AMR HUMIN
	*********			14 40	En MSONALW
2	21904.	2941.	534.2	30.07	.008280
4	19629.	2941.	531.2	30.07	.007840
. 5	19433.	2844.	522.2	29.95	.009220
A	21001.	2798.	572.7	29.94	.009110
. 11	19777.	3012.	518.7	30.0A	.008340
13	20158.	2793.	536.2	30.07	.008470
14	21528.	2915.	. 522.7	30.14	.006310
17	28750.	2885.	517.7	30.21	.009570

MODE 1

UNIT	N1 SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR NZ
5	33.00	60.50	32.52	59.62
4	33.00	60.50	32.61	59.78
5	34.00	61.00	33.89	60.80
8	-31.50	60.00	-31.38	59.77
11	33.00	60.00	33.00	60.00
13	32.00	60,50	31.47	59.50
14	32,50	60.50	32.38	60.27
17	33.00	60.00	33.03	60.06

MODE 1

UNIT	FUEL FLOW	CB F/A	PERF F/A	TT7 DEG R	EPR	THRUST LAF
-						
S	1250.	.8900	.8880	1068.	1.020	1002.
4	1200.	.8950	.R660	-1104.	-1.060	1008.
5	1300.	.9100	.9100	1068.	1.020	1076.
R	1150.	.8930	.9150	1014.	1.020	1012.
11	1230.	.8340	.8680	1014.	1.030	1015.
13	-1120.	.8380	.7950	1064.	1.020	998.
14	1190.	.8520	.8150	996.	1.020	1032.
17	1310.	.8930	.9280	1032.	1.040	1014.

MODE 1

UNIT	CORR FU FL LBM/HR	COR CB F/A CO	R PF F/A CO	DEG R	THRUST LAF
	~~~~~~				
2	1275.	-8640	.8629	1037.	1007.
4 .	1220.	.8740	.8450	1078.	1013.
5	1306.	.9940	.9040	1061.	1077.
8 .	1155.	.8860	.8090	1006.	1012.
11	1237.	.8340	.8680	1014.	1020•
13	1144.	.8110	7690	1033.	1003.
14.	1203.	.8460	.8090	-986.	1039.
17	1321.	.8950	.9300	1034.	1024.

MODE 1

UNIT	CO2 CONC	CO CONC	HC CONC	NO CONC	NOX CONC
S	1.595	963.7	561.9	6.8	9,6
4	1.621	959.6	519.1	5.A	9.7
5	1.605	1001.3	656.2	9.0	10.2
B	1.553	986.9	713.8	5.4	8.6
11	1.476	912.8	525.7	7.0	8.6
13	-1.631	-640.8	-197.6	11.4	13,2
14	1102	931.4	621.7	5.3	8.7
17	1.534	1924.0	759.A	3.5	A.3

MODE 1

UNIT	COS FI	CO EI	HC EI LB/KLB FU	NO EI LB/KLR FU	NOX EI LB/KLR FU	SMK NUMBER FRONT STDE
2	2706.	104.04	104.22	1.21	1.71	13.91
4	-2732.	102.90	-95.53	1.02	1.71	14.47
5	266 5.	105.73	119.03	1.55	1.77	16.53
3	2621.	106.22	131.99	.96	1.53	>0.00
11	2671.	105.13	115.87	1.32	1.63	16.40
13	-2934.	-73.36	-38.86	2.13	2.48	-6.45
14	2661.	105.01	120.41	.98	1.51	17.53
17	2594.	110.68	140.54	.62	1.47	22.88

### JT30-7 . 3000 HOUR TEST SERIES .

MODE 1

UNIT	FCO X100	FHC X100	FNO X100	STD FCO	STO FHC X100	STO FNO
	*******				*******	
s	.2020	0860	15.1970	.1960	.0730	17.1740
4	.2010	0940	15.2630	.1970	.0740	17.2110
5	•5010	.0810	14.7480	.2000	.07A0	17.4340
A	.1980	.0770	14.6000	.1970	.0740	17.2080
11	.1980	.0750	14.7680	.1970	.0750	17.2590
13	.2020	0870	15.1850	.1960	.0730	17.1490
14	.2010	.0800	15.5490	.1980	.0760	17.3180
17	.1990	.0750	14.4390	.1980	.0750	17.2710

## JT30-7 . 3000 HOUR TEST SERIES .

MODE 1

UNIT	NREC CO EI			NR CNOX ET	
••••	F8/KF8 En	LB/KLB FU	LB/KLB FU	LB/KLB FU	CORRECTED
S	107.02	122.66	1.37	1.93	13.91
4	105.35	109.26	1.16	1.92	14.47
5	106.40	123.49	1.84	2.10	16.53
8	106.95	137.52	1.13	1.80	20.00
11	105.55	116.94	1.55	1.91	16.40
13	-75.70	-46,65	2.41	2.80	-6.45
14	106.26	126.97	1.09	1.79	17.53
17	111.30	141.58	.74	1.76	22.88

MOUE S

UNIT	NI SPEED	NS SPEED	CORR NI	CORR NZ
	PER CENT	PER CENT	PER CENT	PER CENT
	*********			
5	36.00	64.50	35.47	63.56
4	36.00	64.00	35.57	63.24
5	36.40	64.00	36.28	63.79
A	35.50	64.00	35.36	63.75
11	-33.50	64.00	-33.50	64.00
13	36.00	-65.00	35.41	63.93
14	35.50	64.00	35.36	63.75
17	36.00	64.00	36.03	64.06

MODE 2

UNIT	FUEL FLOW	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LRF
2	1370.	.8740	.8540	1068.	1.020	1269.
4	1300.	.8770	.8360	-1104.	-1.060	1247.
5	1390.	9040	.8830	1068.	1.025	1291.
8	1300.	.8690	.8720	-1194.	1.025	1289.
11	1320.	.8070	.8140	1014.	1.030	1300.
13	-1240.	.7980	7560	1050.	1.020	1296.
14	1270.	.8340	.7780	1005.	1.020	1280.
17	1390.	.8730	.8610	1032.	1.040	1299.

MODE S

UNIT	CORR FU FL LRM/HR			R TT7 COR	THRUST LBF
	*********				
2	1397.	.8490	.R290	1037.	1276.
4	1322.	.8560	.8160	1074.	1253.
5	1396.	.8970	.8770	1061.	1292.
8	1306.	.8620	.8650	-1185.	1290+
11	1327.	.8070	.A140	1014.	1307.
13	1267.	.7720	7310	1015.	1302.
14	1284.	.8290	.7720	997.	1290.
17	1402.	.8750	.9620	1034.	1312.

MODE 2

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
	••••••				********
5	1.614	860.6	429.0	6.8	11.2
. 4	1.629	857.7	-403.4	5.9	10.7
5	1.637	935.5	533.2	9,4	10.9
. 8	1.569	875.5	537.5	5.6	9.5
11	1.467	818.5	456.2	6.8	10.0
13	1.569	-566.8	-148.7	12.0	13.0
14	1.510	850.4	496.2	5.0	10.4
17	1.546	943.7	613.0	3.4	8.8

MODE S

UNIT	COS ET	CO ET	HC EI	NO EI	NOX ET	SMK NUMBER
	LB/KLB FU	LB/KLA FU	LR/KLR FU	LB/KLR FU	FRAKER EO	FRONT SIDE
2	2785.	94.52	80.94	1.23	2.02	13.99
4	-2800.	93.86	-75.84	1.07	1.92	14.04
5	2733.	99.42	97.34	1.64	1.90	16.71
A	2724.	96.75	102.06	1.01	1.73	20.13
11	2744.	97.45	93.30	1.33	1.95	16.44
13	-2965.	-68,14	-30.71	-2.3A	2.58	-5.01
14	2731.	97.96	98.19	.95	1.99	16.21
17	2672.	103.84	115.49	•62	1.58	21.71

MODE 2

UNIT	FCO X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO
	20000000					
2	•2160	1100	16.1170	.2100	.0930	18.1990
4	. 2140	.1040	16.0550	.2090	.0910	18.0950
5	.2120	.0980	15.4620	.2110	.0940	18.2750
8	.2120	.0980	15.5000	.2110	.0940	18.2650
11	.2130	.0970	15.6990	.2120	.0960	18.3470
13	2180	1150	16.2410	.2110	.0950	18,3240
14	.2130	.0990	16.4030	.2110	.0940	18.2650
17	.2130	.0970	15.3540	.2120	.0960	18.3680

MODE 2

UNIT	NREC CO EI	NREC HC EI		NR CNOX EI	SMK NUMBER CORRECTED
	EDYKED FO			CONCOTO	CORRECTED
2	97.25	95.59	1.38	2.2A	13.99
. 4	96.11	86.85	1.20	2.16	14.04
5	100.05	101.05	1.94	2.25	16.71
. A	97.43	106.43	1.19	2.04	20.13
11	97.84	94.20	1.56	2.25	16.44
13	-70.34	-37.03	2.68	2.91	-5.01
14	99.14	103.63	1.06	2.20	16.21
17	104.43	116.72	.74	1.89	21.71

MODE 3

UNIT	N1 SPEED	NZ SPEED	CORR NI	CORR N2
••••	PER CENT	PER CENT	PER CENT	PER CENT
2	-104.00	103.00	102.48	101.49
4	102.00	102.50	100.79	101.29
5	101.40	101.00	101.06	100.66
8	100.60	102.00	100.21	101-61
11	100.00	103.00	100.00	103.00
13	102.00	-104.50	100.32	102.78
14	102.50	103,50	102.11	103.10
17	101.00	100.00	101.10	100.10

MODE 3

UNIT	FUEL FLOW LBM/HR	CR F/A X100	PERF F/A	TT7 DEG R	EPR	THRUST LRF
2	-10710.	1.6690	-1.5790	-1536.	1.860	18631.
4	-10490.	1.6240	-1.5550	-1554.	1.860	18631.
5	10020.	1.6000	1.4470	1446.	1.850	18581.
8	10000.	1.6720	1.4170	1392.	1.850	19588.
11	10000.	1.5840	1.4110	1410.	1.860	18624.
13	9830.	1.5530	1.4540	1473.	-1.820	-18071.
14	10050.	1.5740	1.4150	1410.	1.860	18587.
17	10250.	1.5679	1.4680	1464.	1.860	19544.

MODE 3

UNIT	CORR FU FL LBM/HR	COR CB F/A C	OR PF F/A C	ORR TT7 COR	THRUST
	********	*******			
2	-10923.	1.6210	-1.5330	-1491.	18724.
4.	-10669.	1.5860	-1.5190	-1517.	18724.
5	10064.	1.5890	1.4370	1436.	18600.
8	10045.	1.6590	1.4060	1381.	18600.
11	10053.	1.5840	1.4110	1410.	18724.
13	10045.	-1.5030	1.4070	1425.	-18162.
14	10163.	1.5620	1.4040	1399.	18724.
17	10339.	1.5700	1.4700	1467.	18724.

MODE 3

UNIT	COS CONC	CO CONC	HC CONC	NO CONC	NOX CONC
	•••••	**********	********		
5	3.526	18.2	3.5	-120.6	-121.1
4	3.428	16.8	4.6	-114.3	-114.5
5	3.375	22.7	6.7	95.3	92.6
9	3.530	20.1	9.9	101.6	98.1
11	3.340	15.8	6.0	107.0	101.1
13	3.278	14.8	2.1	-185.7	-189.9
14	3.321	18.2	5.5	109.8	110.3
17	3.304	20.2	5.6	94.5	95.1

MODE 3

UNIT	CO2 EI LB/KLB FU	CO EI LB/KLB FU	HC EI LB/KLB FU	NO EI LB/KLB FU	NOX EI LB/KLB FU	SMK NUMBER FRONT STOE
				0000000000		
S	3153.	1.04	•34	-11.28	-11.33	38,43
4	3153.	.99	.46	-10.99	11.01	38.41
5	3152.	1.35	•68	9.31	9.31	42.80
8	3151.	1.14	.97	9.48	9.48	47.89
11	3150.	.95	.62	10.55	10.55	44.56
13	3154.	.91	•55	-18.68	-19.10	-12.50
14	3153.	1.10	•57	10.90	10.95	41.79
17	3150.	1.23	.59	9.42	9.48	49.07

MODE 3

UNIT	FCO X100	FHC X100	FNO X100	STD FCO X100	STD FHC X100	STD FNO
5	118.0580	108.8170	86.8150	90.5250	A3.0510	95.6800
4	101.5340	99.2700	95.7280	82.5200	79.7400	94.7510
5	82.1320	74.8700	78.2470	77.6970	70.5000	91.9940
A	106.2510	90.9700	R2.1460	99.2840	84.9250	96.1930
11	98.7090	112.2790	87.7880	98.4980	111.1570	102.5960
13	108.5170	-145.1R20	92.6300	82.1180	106.5680	101.5660
14	102.0300	123.0880	-93.1850	95.2060	113.3790	103.0920
17	69.8570	63.0850	-74.7510	70.5750	63.0340	89.5550

MODE 3

UNIT	NREC CO EI	NREC HC EI	NRE CNO ET	NR CNOX ET	SMK NUMBER CORRECTED
			*******		
5	1.35	.45	12.43	12.48	38.43
4	1.21	.57	12.15	12.17	38.41
5	1.42	.72	10.94	10.94	42.80
9	1.22	1.03	11.10	11.10	47.89
11	•95	.62	18.33	15.33	44.56
13	1.20	.30	-20.49	-20.94	-12.50
14	1.18	.62	12.05	12-11	41.79
17	1.21	•59	11.28	11.36	49.07

MODE 4

UNIT	NI SPEED	N2 SPEED	CORR NI	CORR NZ
	PER CENT	PER CENT	PER CENT	PER CENT
	*********		•••••	
5	-9R.00	100.50	96.57	99.03
4	96.50	100.00	95.36	98.82
5	96.50	99.00	96.18	98.47
9	95.50	100.00	95.13	99.62
11	97.00	100.00	97.00	100.00
13	-97.50	-102,50	95.90	100.A1
14	-97.50	101.10	97.13	100.71
17	96.00	98.00	96.09	98.09

MODE 4

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TTT DEG R	EPR	THRUST LRF
2	-8750.	-1.4800	-1.4080	1392.	1.660	15747.
4	8520.	1.4340	-1.3710	1392.	1.660	15747.
5	8200.	1.4220	1.3030	1347.	1.660	15810.
8	8140.	-1.4930	1.2900	1338.	1.660	15815.
11	8220.	1.3900	1.2960	1338.	1.660	15742.
13	8370.	1.4100	1.3290	1356.	1.660	15747.
14	8360.	1.4010	1.3070	1320.	1.660	15710.
17	8540.	1.4210	1.3500	1356.	1.660	15674.

MONE 4

UNIT	CORR FU FL	COR CR F/A CO		R TT7 COR	THRUST LRF
	••••••				
5	-9974.	1.4370	1.3670	1351.	15826·
4	-8645.	1.4000	1.3390	1359.	15826.
5	8236.	1.4130	1.2940	1338.	15826.
A	8177.	-1.4810	1.2800	1327.	15826.
11	A264.	1.3900	1.2960	1338.	15826·
13	4553.	1.3640	1.2860	1311.	15826.
14	8454.	1.3900	1.2970	1310.	15826.
17	-8614.	1.4240	1.3530	1358.	15826.

MODE 4

UNIT	COZ CONC	CO CONC	HC CONC	NO CONC	NOX CONC
					******
5	-3.i.º0	20.5	1.8	-92.7	94,2
. 4	3.022	21.9	2.8	85.7	88.7
5	2.996	24.4	3.3	74.8	78.2
. 8	-3.146	24.5	4.2	76.3	78.9
11	2.926	20.3	3.2	80.1	81.3
13	2.972	-15.7	. 1.3	-145.3	-148.0
14	2.951	20.2	2.7	88.2	88.2
17	2.992	25.9	2.6	73.7	76.4

MODE 4

UNIT	COZ ET	CO EI	HC ET	NO EI LB/KLB FU	NOX EI LB/KLB FU	SMK NUMBER FRONT SIDE
	••••••					
2	3153.	1.32	•\$0	9.79	9.95	-42.65
4	3153.	1.45	•35	9.34	9.67	44.37
5	3152.	1.63	.39	A.23	8.61	45.17
A	3152.	1.56	.46	7.99	8.26	49.74
11	3150.	1.39	. 18	9.02	9.16	46.31
13	3154.	-1.06	.15	-16.13	-16.42	-14.21
14	3153.	1.37	.32	9.85	9.85	44.08
17	3150.	1.74	.30	8.12	8.41	52.56

MODE 4

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X100
2	-61.9510	66.1000	77.0260	49.5660	50.9060	85.0720
4	54.2850	60.2350	76.0390	45.5870	48.7390	84.1860
5	48.0330	50.1380	71.0610	45.8030	47.2900	83.5770
8	60.2890	61.2330	74.7040	56.9100	57.2720	87.5160.
11	50.7780	62.4300	76.2760	50.6420	61.8330	89.1420
13	-67.3180	-98.1790	-84.3470	52.6840	72.6550	92.6600
14	57.8400	-77.1440	-83.3200	54,4760	71.2210	92.2180
17	43,5770	42.0320	67.7810	43.9200	41.9770	81.1960

400F 4

UNIT				NR CNOX EI LB/KLB FU	SMK NUMBER CORRECTED
2	1.65	.26	10.82	10.99	-42.65
. 4	1.73	.40	10.34	10.71	44.37
5	1.71	.41	9,68	10.12	45.17
. 8	1.66	.50	9.36	9.68	49.74
- 11	1.39	.38	10.54	10.70	46.31
13	1.35	.20	-17.71	-18.04	-14.21
14	1.46	. 34	10.90	10.90	44.09
17	1.72	.30	9.72	10.07	52.56

MODE 5

UNIT	N1 SPEED	NZ SPEED	CORR NI	CORR NZ
	PER CENT	PER CENT	PER CENT	PER CENT
2	-88.00	95.50	86.71	94.10
4	87.00	95.50	A5.97	94.37
5	86.30	94.00	86.01	93.68
8	86.00	95.00	85.67	94.64
11	87.50	96.00	-R7.50	96.00
13	-88.00	-98.00	86.55	96.39
14	87.50	96.50	87.16	96.13
17	86.00	93.50	86.08	93.59

MODE 5

UNIT	FUEL FLOW LRM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST
2	-6310.	-1.2570	-1.2480	1257.	1.400	11144
						11144.
4	-6800.	1.2100	-1.3600	-12A4.	1.400	11144.
5	5690.	1.2080	1.1220	1212.	1.390	10957.
Я	5710.	-1.2430		1212.	1.390	10960.
11	5800.	1.1480	1.1300	1221.	1.400	11140.
13	5970.	1.1980	1.1680	1230.	1.400	11144
14	5680.	1.1840	1.0930	1194.	1.400	11118.
17	6020.	1.2180	1.1640	1515.	1.400	11092.

MODE 5

UNIT	CORR FU FL LBM/HR	COR CB F/A C	COR PF F/A	CORR TT7 COR	THRUST
	•••••				
2	-6436.	1.2210	-1.2120	1220.	11200.
4.	-6916.	1.1810	-1.3280	1253.	11200.
5	5705.	1.2000	1.1150	1204.	10968.
8	5736.	1.2340	1.1200	1202.	10968.
11	5831.	1.1480	1.1300	1221.	11200.
13	-6100.	1.1590	1.1300	1190.	11200.
14	5744.	1.1750	1.0840	1185.	11200.
17	6072.	1.2200	1.1660	1214.	11200.

MODE 5

UNIT	CG2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
	•••••	•••••			
2	-2.642	43.4	1.6	56.2	60.2
4	2.540	44.7	3.0	53.0	59.7
5	2.536	56.2	2.7	47.A	54.3
8	-2.612	46.6	2.7	47.3	53.3
11	2.408	43.5	2.5	48.6	52.8
13	2.519	-19.7	1.0	-88.5	-89.7
14	2.486	43.0	2.0	55.0	59.7
17	2.555	60.8	2.5	43.9	51.7

MODE 5

UNIT	CO2 EI	CO EI	HC EI	NO EI LB/KLB FU	NOX EI LB/KLB FU	SMK NUMBER FRONT STOE
	*************			••••••		~~~~~~
2	3150.	3.29	•50	7.00	7.50	44.71
4	3149.	3,53	•41	6.87	7.61	<b>→5.5</b> 5
5	3148.	4.44	•36	6.21	7.05	46.94
8	3149.	3,58	.36	5.97	6.72	51.32
11	3147.	3.61	•35	6.64	7.21	49.87
13	3153.	-1.57	.13	-11.58	-11-74	-14.04
14	3150.	3,47	.28	7.29	7.90	47.40
17	3145.	4.77	•33	5.65	4.45	52.32

MODE 5

UNIT	FC0 x100	FHC X100	FN0 X100	STD FCO	STD FHC X100	STO FNO X100
2	25.0620	22.0090	54.4560	20.9450	17.2440	65.2450
4	23.5930	22.3960	59.4850	20.4740	18.3490	66.2740
5	20.1990	16.4900	54.0970	19.4340	15.6140	63.6840
A	23.6760	20.7760	57.3790	22.6240	19.5190	67.2910
11	23.4780	26.8670	67.1400	23.4050	26.6100	72.6210
13	-30.2260	-38.4960	-67.2350	24.7280	-29.0010	74.1710
14	25.8300	-29.5460	-66.0170	24.5770	27.3920	73.1390
17	19.6460	15.3020	52.4800	19.7420	15.2670	63.3310

MODE 5

UNIT		NREC HC EI			
	LD/KLD FU	LB/KLB FU	LR/KLB FU	LR/KLR FU	CORRECTED
2	3.94	.26	7.77	A.32	44.71
4	4.06	.50	7.63	R.44	45.55
5	4.61	.38	7.31	A.30	46.94
8	3.74	.38	7.00	7.88	51.32
11	3.63	.36	7.76	R.43	49.87
13	-1.92	.17	-12.7A	-12.95	-14.04
14	3.64	.30	8.07	R.75	47.40
17	4.74	.33	6.76	7.96	52.32

MODE 6

UNIT	NI SPEFD PER CENT	NZ SPEED PER CENT	CORR N1 PER CENT	CORR N2 PER CENT
5	-72.00	89.00	70.95	86.71
4	70.00	88.00	69.17	86.96
5 .	70.00	87.00	69.77	86.71
4	69.00	88.00	68.74	87.66
11	71.00	88.20	71.00	88.20
13	71.50	-90.00	70.32	88.52
14	70.50	89.00	70.23	88.66
17	69.00	86.00	69.07	86.08

MODE 6

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LRF
2	3520.	-1.0270	1.0240	-1140.	1.170	5607.
4	3420.	-1.0170	1.0100	-1176.	1.170	5607.
5	3300.	.9780	.9490	1104.	1.170	5629.
8	3220.	.9900	.9760	1104.	1.170	5631.
11	3350.	.9100	.9590	1104.	1.170	5605.
13	3380.	.9620	.9530	1068.	1.170	5607.
14	3290.	.9440	.9330	1086.	1.170	5594.
17	3330.	•9550	.9490	1104.	1.170	5581.

MODE 6

UNIT	CORR FU FL LRM/HR	COR CB F/A COR		R TT7 COR	THRUST LRF
	********	•••••••			
2	-3590.	.9970	.9940	1107.	5635.
4	3478.	.9930	.9860	-1148.	5635.
5	3314.	.9710	.9430	1096.	5635.
8	3235.	.9830	.9190	1095.	5635.
11	336A.	•9100	.9590	1104.	5635.
13	3454.	.9310	.9210	-1033.	5635.
14	3327.	.9370	.9250	1077.	5635•
17	3359.	.9570	.9510	1106.	5635.

MODE 6

UNIT	CO2 CONC	CO CONC	HC CONC	NO CONC	NOX CONC
				••••••	********
5	-2.139	151.3	10.5	28.2	34.4
. 4	-2.115	144.8	19.3	23.9	33.1
5	2.029	181.7	15.2	30.2	31.7
. 8	2.062	146.3	10.6	22.8	29,3
-11	1.891	141.9	10.3	25.5	29.5
13	2.014	-49.7	-2.0	-40.0	-41.1
14	1.962	152.8	12.3	25.6	32,1
17	1.973	215.9	-26.6	-15.3	26,7

MODE 6

UNIT	COS EI	CO EI	FB/KFB ER	NO EI LR/KLR FU	NOX EI	SMK NUMBER FRONT STOE
		**********	********		******	
2	3129.	14.09	1.67	4.31	5.26	36.36
4	3126.	13.62	3.12	3.70	5.11	40.39
5	3121.	17.79	2.55	4.85	5.10	39.57
8	3129.	14.13	1.76	3.61	4.65	45.18
11	3125.	14.93	1.86	4.40	5.10	44.53
13	-3147.	-4.94	34	-6.53	-6.71	-8.08
14	3126.	15.49	2.13	4.26	5.34	42.71
17	-3107.	21.65	-4.57	-2.53	4.40	46.23

MODE 6

UNIT	FCO X100	FHC X100	FN0 X100	STD FCO X100	STD FHC X100	STD FNO X100
2	8.2530	3.8790	38.5050	7.1790	3.1210	42.9630
4	8.2190	3.9470	39.0370	7.3400	3.3040	43.5430
5	7.2040	3.2730	36.4350	6.9890	3.1170	42.9490
8	8.1170	4.1100	39.5930	7.8370	3.8860	45.3160
11	7.7500	4.4470	39.9790	7.7230	4.4050	46.7230
13	-9.5460	-6.1270	-42.8600	8.1690	4.7630	47.6300
14	-8.6840	-5.2790	-43.2830	8.3450	-4.9270	48.0790
17	6.4240	2.7010	34.6110	6.4360	2.6900	41.4340

MODE 6

UNIT	NREC CO EI			NR CNOX EI	
	LB/KLB FU	LB/KLB FU	LR/KLR FU	LB/KLB FU	CORRECTED
2	16.20	2.08	4.81	5.87	36.36
. 4	15.25	3.73	4.12	5.71	40.39
5	18.34	2.68	5.71	6.01	39.57
A	14.64	1.87	4.24	5.47	45.19
11	14.98	1.88	5.14	5.96	44.53
13	-5.78	44	-7.25	7.46	-8.08
14	16.12	2.29	4.73	5.93	42.71
17	21.61	-4.59	-3.02	-5-27	46.23

MODE 7

UNIT	N1 SPEED PER CENT	N2 SPEED	CORR NI	CORR N2
	PER CENT	PER CENT	PER CENT	PER CENT
2	36.00	64.00	35.47	63.06
4	35.00	64.00	34.59	63.24
5	36.00	64.00	35.AA	63.79
8	34.50	64.00	34.37	63.75
11	36.00	63.70	36.00	63.70
13	35.00	64.00	34.42	-^2.95
14	35.00	64.00	34.87	63.75
17	35,00	63,50	35.03	63.56

MODE 7

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST LRF
2	1310.	.8230	.8220	1050.	1.030	1234.
4	1250.	.8210	.7910	1068.	-1.060	1247.
5	1320.	. 7980	·8240	1032.	1.025	1291.
8	1200.	.8210	•7500	1032.	1.030	1289.
11	1250.	.7470	.7780	1014.	1.030	1279.
13	1200.	.7460	.7470	1032.	1.020	-1226.
14	1210.	.7630	.7450	1014.	1,020	1280.
17	1330.	.8210	·A360	1032.	1.040	1264.

MODE 7

UNIT	CORR FU FL LBM/HR	COR CB F/A CC	X100	CORR TT7 COR	THRUST LBF
		******			
2	1336.	.7990	.7980	1019.	1240.
4 .	1271.	.8020	.7720	1043.	1253.
5	1326.	.7920	.8190	1025.	1292.
8	1205.	.8150	.7440	1024.	1290•
11	1257.	.7470	.7780	1014.	1296•
13	1226.	7210	.7220	998.	-1232•
14	1224.	.7570	.7390	1006.	1290•
17	1342.	.8230	.8380	1034.	1276.

MODE 7

UNIT	COZ CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
S	1.522	808.5	393.5	8.5	10.4
4	1.526	806.5	373.0	5.A	10.3
5	1.444	839.9	465.2	11.0	10.9
8	1.511	799.1	421.7	7.8	9,9
11	1.363	770.3	399.2	8.4	9,5
13	1.460	-567.8	-145.7	13.5	11.6
14	1.397	777.0	399.1	7.2	10.5
17	1.469	995.4	524.1	-3.9	8,6

MODE 7

UNIT	CO2 EI	CO EI	HC EI LB/KLB FU	NO EI LR/KLR FU	NOX EI LB/KLB FU	SMK NIMBER FRONT SIDE
	~~~~~	******	********			
2	2791.	94.36	78.90	1.62	1.99	11.84
4	2802.	94.28	-74.92	1.11	1.97	14.47
5	2733.	101.15	96.25	2.18	2.18	16.10
8	2776.	93.48	84.75	1.50	1.90	20.32
11	2756.	99.10	88.23	1.79	2.00	17.20
13	-2953.	-73.09	-32.22	-2.86	2.86	-3.29
14	2765.	97.88	86.37	1.49	2.18	16.54
17	2700,	104.76	105.34	76	1.66	20.00

MODE 7

UNIT	FCO X100	FHC X100	FNO X100	STD FCO X100	STO FHC X100	STO FNO
5	.2140	1050	15.9700	.2080	.0890	18.0360
4	.2140	1040	16.0550	.2090	.0910	14.0950
5	.2120	.0900	15.4620	.2110	.0940	18,2750
R	.2120	.0980	15.5000	.2110	.0940	18.2650
11	.2110	.0950	15.6130	.2110	.0940	18.2470
13	.2140	1070	15.9460	2070	ORRO	-17,9970
14	.2130	.0990	16.4030	.2110	.0940	18.2450
17	.2110	.0930	15.2150	.2100	.0930	18.2010

MODE 7

UNIT	NREC CO EI LB/KLB FU	NREC HC ET	NRE CHO ET	NR CNOX EI	SMK NUMBER CORRECTED
	*********	••••••		••••••	*******
5	97.08	93.13	1.83	2.24	11-84
•	96.54	A5.80	1.25	5.55	14.47
5	101.80	99.92	2,57	2.57	16.10
8	94.13	88.38	1.77	2.24	20.32
11	99.49	89.08	2.09	2.34	17.20
13	-75.43	-38.80	3.22	3.55	-3.29
14	99.05	91.16	1.66	2.42	16.54
17	105.35	106.10	91	1.98	20.00

MODE S

UNIT	NI SPEED PER CENT	NZ SPEED PER CENT	CORR NI PER CENT	CORR N2

5	33,50	61.00	33.01	60.11
4	33,50	61.00	33.10	60.28
5	-34.50	61.50	34.3A	61.29
A	33.00	61.00	32.87	60.77
11	34.00	61.00	34.00	61.00
13	-32.00	. 60.50	-31.47	-59.50
14	33.00	61.00	32.87	60.77
17	34.00	61.50	34.03	61.56

MODE 8

UNIT	FUEL FLOW LBM/HR	CB F/A X100	PERF F/A X100	TT7 DEG R	EPR	THRUST
5	1240.	.8470	.8570	1050.	1.020	1023.
4	1190.	.845C	.8430	-1104.	-1.060	1035.
5	1300.	• 630	.9120	-1113.	1.020	1112.
8	1160.	.8420	.7920	1014.	1.025	1074.
11	1230.	.7740	·8360	1014.	1.030	1086.
13	1130.	.7450	.7890	1032.	1.020	998.
14	1170.	.7820	.7940	1014.	1.020	1067.
17	1320.	•8340	.8850	1032.	1.040	1121.

MODE 8

UNIT	CORR FU FL		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	R TT7 COR	THRUST LRF
••••					
2	1265.	.8220	.8330	1019.	1028.
4	1210.	.8250	.R230	-1078.	1040•
5	1306.	.8570	.9060	-1105.	1113.
A	1165.	.8350	.7860	1006.	1075.
11	1237.	.7740	.8360	1014.	1092.
13	1155.	7210	.7630	998.	1003.
14	1187.	.7760	.7970	1006.	1075.
17	1332.	.8360	.8870	1034.	1132.

MODE 8

UNIT	CO2 CONC PER CENT	CO CONC	HC CONC	NO CONC	NOX CONC
••••		*******	••••••	*********	
2	1.529	906.0	505.4	7.3	9,3
. 4	1.542	887.0	456.6	5.5	9.7
5	-1.550	918.0	538.0	10.6	10.7
8	1.523	868.7	501.1	6.7	9,2
11	1.383	853.6	494.8	7.3	8.9
13	1.443	-613.5	-181.3	12.3	11.1
14	1.404	842.5	482.1	6.0	9,9
17	1.471	945.3	591.7	3.9	8.3

MODE 8

UNIT	COS EI	CO E1 LB/KLR FU	HC EI LR/KLR FU	NO FI LB/KLB FU	NOX EI LA/KLB FU	SMK NUMBER FRONT SIDE
	********					~~~~~~
5	2724.	102.74	98.47	1.37	1.74	13.49
4	2753.	100.79	-89.13	1.03	1.81	14.74
5	2713.	102.24	102.93	1.93	1.95	:4.80
8	2731.	99.11	98.22	1.26	1.72	19.84
11	2698.	105.99	105.52	1.50	1.82	14.86
13	-2977.	-79.03	-40.13	-2.60	2.60	-4.08
14	2714.	103.60	101.45	1.22	1.99	16.34
17	2661.	109.99	117.09	.75	1.57	20.67

MODE 8

UNIT	FC0 X100	FHC X100	FN0 X100	STD FCO	STD FHC X100	STD FNO X100
2	.2030	0A80	15.2940	.1980	.0750	17.2R20
4	.2030	.0860	15.3600	.1980	.0760	17.3200
5	•2030	.0830	14.8420	.2010	.0800	17.5440
8	.2010	.0810	14.7870	.2000	.0780	17.4280
11	.2010	.0790	14.9560	.2010	.0780	17.4790
13	•2020	0870	15.1850	1960	0730	-17.1490
14	.2020	.0820	15.6480	.2000	.0790	17.4280
17	.2030	.0810	14.7160	.2020	.0810	17.6030

MODE 8

UNIT	NREC CO ET	NREC HC EI LB/KLB FU	NPE CNO FI LB/KLB FU	NR CNOX ET	SMK NUMBER CORRECTED
		•			
5	105.69	115.93	1.54	1.97	13.49
. 4	103.18	101.87	1.16	2.04	14.74
5	102.89	106.79	2.29	2.31	14.80
8	99.90	102.35	1.49	7.03	19.84
. 11	106.41	106.54	1.75	2.12	14.86
13	-81.54	-48.17	2.94	2.94	-4.08
14	104.94	. 107.41	1.35	2.22	16.34
17	109.50	117.95	89	1.98	20.67

5. FUEL ANALYSIS DATA

Unit	Test	deg	H/C	FIA, percent		
No.	Series	API	Ratio	Paraffin	Olefin	Aromatic
1	Base, ine 600-Hour 1200-Hour	42.6 42.3 43.2	1.91 1.91 1.95	84 84 85	2 2 2	14 14 13
2	Baseline 600-Hour 1200∘Hour 1800-Hour 2400-Hour 3000-Hour	43.0 42.3 43.2 42.8 45.2 44.9	1.91 1.91 1.93 1.90 1.93 1.92	84 84 85 82 82 81	2 2 2 2 1 2	14 14 13 16 17
3	Baseline 600-Hour 1200-Hour	43.0 42.3 43.2	1.91 1.91 1.93	84 84 85	2 2 2	14 14 13
4	Baseline 600-Hour 1200-Hour 1800-Hour 2400-Hour 3000-Hour	43.0 42.3 43.2 42.8 45.2 44.9	1.91 1.91 1.93 1.90 1.93 1.92	84 84 85 82 82 81	2 2 2 2 1 2	14 14 13 16 17
5	Baseline 600-Hour 1200-Hour 1800-Hour 2400-Hour 3000-Hour	42.8 42.3 43.4 42.6 44.9 44.3	1.92 1.91 1.92 1.91 1.90	83 85 85 84 82 82	3 1 2 2 1	14 14 13 14 17
6	Baseline 600-Hour	42.8 42.3	1.92 1.91	83 85	3	14 14
7	Baseline 600-Hour 1200-Hour 1800-Hour 2400-Hour	42.8 42.3 43.4 42.6 44.9	1.92 1.91 1.92 1.91	83 85 85 84 82	3 1 2 2	14 14 13 14

^{*} Fuel analysis data not available

Unit	Test	deg	H/C	FIA, percent		
No.	Series	API	Ratio	Paraffin	Olefin	Aromatic
8		12.		0.5		
8	Baseline	43.6	1.93	85	2	13
	600-Hour	42.3	1.91	85	1	14
	1200-Hour	43.4	1.92	85	2	13
	1800-Hour	42.6	1.91	84	2	14
	2400-Hour	44.9	1.90	82	1	17
	3000-Hour	44.3	1.92	82	1	17
9	Baseline	43.2	1.94	84	3.	13
10	Baseline	43.2	1.94	84	3	13
11	Baseline 600-Hour 1200-Hour 1800-Hour 2400-Hour 3000-Hour	43.2 42.8 43.4 42.8 44.9 45.4	1.94 1.93 1.92 1.91 1.90 1.93	84 84 85 82 83 82	3 2 2 2 1 1	13 14 13 16 16
12	Baseline 600-Hour 1200-Hour	43.6 42.8 43.4	1.92 1.93 1.92	85 84 85	2 2 2	13 14 13
13	Baseline 600-Hour 1200-Hour 1800-Hour 2400-Hour * 3000-Hour	43.8 42.3 42.8 42.8 44.9	1.92 1.93 1.91 1.92	86 84 85 84	2 2 2 1	12 14 13 15
14	Baseline 600-Hour 1200-Hour 1800-Hour	43.8 42.8 42.8 42.8	1.92 1.92 1.91 1.92	86 84 85 84	2 2 2 1	12 14 13 15
	2400-Hour * 3000-Hour	43.8	1.92	82	1	17
15	Baseline 600-Hour 1200-Hour 1800-Hour 2400-Hour *	43.8 42.8 42.8 42.8	1.92 1.92 1.91 1.92	86 84 85 84	2 2 2 1	12 14 13

^{*} Fuel analysis data not available

Unit	Test	deg	H/C	FIA, percent Paraffín Olefín Aromatic		
No.	Series	API	Ratio	Paraffin	Olefin	Aromatic
16	Baseline	43.8	1.92	86	2	12
17	Baseline 600-Hour 1200-Hour 1800-Hour 2400-Hour 3000-Hour	43.0 42.8 43.4 43.0 44.9	1.91 1.92 1.91 1.92 1.95 1.93	85 84 85 82 83 81	2 1 1 2 1	13 15 14 16 16 18
18	Baseline 600-Hour	43.0 42.8	1.91 1.92	85 84	2	13 15

^{*} Fuel analysis data not available

6. REFERENCES

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- "T53 and T55 Gas Turbine Combustor and Engine Exhaust Emission Measurements", USAAMRDL Technical Report 73-47, December 1973.
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